

TELEPHONE: 972,233,1700

NL INDUSTRIES, INC.

THREE LINCOLN CENTRE
5430 LBJ FREEWAY
SUITE 1700
DALLAS, TEXAS 75240-2697

SFUND RECORDS CTR 2250077

TELEPHONE FACSIMILE: 972.934-5358

COURTNEY J. RILEY
Executive Director Environmental Management
(972) 448-1466
criley@valhi.net

VIA FED-EX

October 28, 2011

Craig Whitenack, Civil Investigator United States Environmental Protection Agency Region IX, Southern California Field Office 600 Wilshire Avenue, Suite 1420 Los Angeles, California 90017

> Re: Yosemite Creek Superfund Site, San Francisco, CA Supplemental Response to 104(e) Information Request

Dear Mr. Whitenack:

Please accept this letter and the attached documents as a supplement to NL Industries, Inc.'s ("NL") prior responses to the United States Environmental Protection Agency's ("EPA") information request concerning the Yosemite Creek Superfund Site (the "Site"). NL originally responded to EPA's information request on January 7, 2010, and supplemented its response on October 21, 2010.

Recently, NL discovered additional materials that provide information concerning operations at NL's former facility at 2240 24th Street ("24th Street Facility"), one of the two former NL facilities allegedly linked to the Bay Area Drum Site. These documents, which are enclosed, relate to litigation that took place more than ten years after NL donated its 24th Street Facility to a third party and include excerpts of deposition testimony from five persons, three of whom are former NL employees, as well as a draft and a Final Environmental Impact Report for the 24th Street Facility. NL hereby supplements its prior response to Question 30 of EPA's information request.

It is possible that some or all of these documents may have previously been provided to the California Department of Toxic Substances Control or EPA. NL has searched for but has not been able to find complete transcripts of the attached depositions. Complete copies of the transcripts will be provided if they are located.

In addition, as a supplement to its Responses to Questions 3 and 5 of EPA's information request, NL is also enclosing the October 14, 2011 Affidavit of Fred Oberlin, a former NL employee who supervised the laboratories at NL's 24th Street Facility and its Marin Street facility (the other former NL facility with an alleged nexus to the Bay Area Drum Site). As set forth in

Craig Whitenack, Civil Investigator US EPA, Region IX October 28, 2011 Page 2

Mr. Oberlin's affidavit, PCBs were not used in any of the production processes, including those for varnishes and lacquers, that occurred at the 24th Street Facility or the Marin Street facility. Likewise, only negligible amounts of lead may have been used at the 24th Street Facility as an ingredient in the dryers used during the production of varnishes, and no lead was used in the production of lacquers. Accordingly, any drums of varnishes and lacquers that may have been taken to the Bay Area Drum Site from the 24th Street Facility or the Marin Street facility for reconditioning would not have contained any PCBs. Nor would they have contained any appreciable amount of lead. Mr. Oberlin also confirms drums picked up from the 24th Street Facility were essentially empty.

Lastly, in response to Question 24 of EPA's information request, NL provides the following additional names and last contact information for persons who may have some knowledge of operations, but not necessarily of environmental matters, at the 24th and Marin

Street properties: Marvin Nance, Privacy Act

Donald Nazario, Privacy Act

Fred Oberlin, Privacy Act

Rasmussen, Privacy Act

and Carrie and Lewis Roa,

Please note that NL provides the enclosed documents and the information in this letter subject to the general and specific objections set forth in detail in NL's January 7, 2010 original response to EPA's information request. NL further reserves its right to supplement its original response should more information become available. Please feel free to contact me directly should you have any questions.

Sincerely,

Courtney J. Ri

Enclosure

cc: Elizabeth Thanne Cox

Office of Regional Counsel

1	IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA		
2	IN AND FOR THE COUNTY OF SAN FRANCISCO		
3	000		
4	THE SYNANON CHURCH,)	
5 .	Plaintiff,	<i>}</i> }	
6	-vs-	No. 804196	
7	FOXCROFT ASSOCIATES, a Partnership; RANDALL F. BAUKNEY; STEPHEN B. BEREZIN: JOSEPH SKIFFER; and		
9	DOES 1 through 10, inclusive,		
10	Defendants.)))	
11	FOXCROFT ASSOCIATES, a California General Partnership; RANDALL F.	,))	
12	BAUKNEY, STEPHEN P. BEREZIN and JOSEPH SKIFFER, JR., as Individuals,))	
13	Cross-Complainants,))	
14	-vs-) }	
16	THE SYNAMON CHURCH: NL INDUSTRIES, INC., a Corporation; and DOES I through C, inclusive,))))	
17 18	Cross-Defendants.)))	
19 20	STUART M. KAPLAN, Receiver for 2222 Ltd., a California Limited Partnership,)))	
	Intervenor.))	
21		j	
22 23	00		
24	FRIDAY, NOVEMBER 9,	1984	
25	000		
26	DEPOSITION OF		
27	RICHARD MARKLIN		
28	000 ALICE GEE SOON, CSR LICENSE NO. 2577	Ехнівіт з	

However, that is not true in the case of the war years because then your plant was working the shipyards for 2 the services. They were producing all kinds of specification products, and I think the balance of production during that time was just about the reverse, that you had about 80 percent government work. Generally speaking, were paint and varnish the principal Q. products? 8 Paint and varnish were the principal products. A. also made shellac and the lacquer. But the lacquer 10 were not made in those premises. 11 Was the lacquer made somewhere else in the Bay Area? Q. 12 They had a warehouse down at Kansas and Marin across 13 from Army Street. The lacquer plant was there. 14 What was the capacity of the plant for paint production Q. 15 on an annual basis? 16 Varied between a million and a half and three million A. 17 gallons. 18 What about varnish? What was the capacity for that Q. 19 production? 20 That would be two to three million gallons also. A. 21 wasn't all for retail sale. The varnish that was 22 produced there was used in making the paint products, 23 but there were also separate industrial varnishes made 24 as well. But the majority of the varnish production 25 went to the paint plant and was used in the production 26 of paint products. 27 And the rest of it was sold directly? Did the paint Q. 28

•			
1		receiving hiding pigment from zinc and from lead.	
2		Neither one of those can be classified as important	
3		for that particular purchase.	
4	Q.	Were lead or zinc important for any part of the paint	
5		production process?	
6	· A.	Zinc was considered the needed ingredient to give a	
7		hard paint film. Lead was considered needed for exterior	
8		durability.	
9	Q.	Were lead and zinc used in the paint production throughout	
10		the period that you were at the plant, again, this 28-	
11		year period?	
12	Α.	No. I think lead was phased out sometime prior to	
13		sometime prior to the shutdown of the plant.	
14	Q.	What about zinc?	
. 15 .	Α.	That was in use the total time I was there.	
- 16	Q.	Were there any principal suppliers of the let me back	
17		up a minute. When you say zinc was used to ensure a	
18		hard paint film, was that zinc considered a pigment	
19		or what kind	
20	Α	Pigment.	
21	Q.	What about the lead that was used for exterior durability?	
22	Α.	A hiding pigment.	
23	Q.	Were there any principal suppliers of the lead pigments?	
24	А.	Yes. National Lead. They had a lead plant over in	
25		San Leandro.	
. 26	Q.	Was that a different division than the National Lead	
27		Company?	
2,8	٨.	It was a different division.	

1	Ω.	But most of the lead was acquired then internally
2		rather than externally?
3	Α.	Well, within the company, yes.
4	Q.	What about the zinc? Were there any particular supplier
5		of that?
6	A.	No. There were several suppliers of zinc and there was
7	,	quite a changeover, as I recall, of the operations of
8		the zinc of suppliers coming and going, being purchased
9		by another company, so on and so forth. There were two
10	ļ. 	or three suppliers of zinc.
11	Ω.	Was Reichold Chemical Company a supplier of metallic
12		pigment?
13	A.	Yes.
14		MR. WEILL: Spelling of Reichold?
15	Ç.	(By Mr. Hoffman) R-e-i-c-h-o-l-d?
16	Α.	Right.
17	Q.	Did they supply lead or zinc?
18	A.	They supplied color pigments.
19	Q.	What were the principal metallic constituents of those?
20	Α.	Those were lead chromates. Reichold was only one of a
21		number of suppliers on those.
22	Q.	What colors were those lead chromates used to produce?
23	A.	Reds, greens, yellows.
24	Q.	Was that the principal pigment used for coloring?
25	Α.	It was in the forties and fifties.
26	Q.	What replaced it?
27	Α.	Organic colors. Produced by Du Pont basically known as
28	1	phthalocyanine.

	1	
1		approximating?
2	Α.	I think they were down to the twenties by then.
3	Q	Did Imperial Chemical Company supply pigments?
4	Α.	Yes.
5	Q.	What principally did they supply?
6	A.	They also supplied lead chromates similar to Reichold.
7		They were just a little alternate supplier.
8	Q.	Were there any other chromium compounds that were used
9		as pigments?
10	Α.	Not that I can think of.
11	Q.	What I want to ask you about now is in what form, that is
12	ŀ	what kind of containers, were these pigments generally
13		received when they came in to be used for the production?
14	Α.	Fifty-pound bags was the most common packaging.
15	Q.	Were these bags plastic or heavy paper?
16	A.	Heavy paper.
17	Ω.	Was that generally true, that is, the 50-pound bags,
18		being used for all the kinds of pigments we have been
19		talking about?
20	à.	Yes. There were some exceptions where some material care
21	<u> </u>	in fiber drums, some cases in lighter packages than
22		50 pounds, and in a few cases heavier packages than 50
23		pounds.
24	Q.	These came in initially by truck, I take it?
25	A.	Yes. There was no rail spur.
26	Q.	There was a driveway, if I am correct, along Kansas
27		Street toward the southwestern portion of the property?
28	Α.	This was the entrance to the inner yard, yes.
		· · · · · · · · · · · · · · · · · · ·

1	Q.	All right. Did the trucks actually come right into the
2		yard when they delivered the pigments?
3 -	Α.	No. Most of the pigments were unloaded out in the
4		street.
5	Q.	On Kansas Street?
6	Α.	On Kansas Street.
7	Q.	How were they then brought into the yard?
8	A.	They were not brought into the yard. They were brought
9		into the basement which was down bottom levels of
10		Buildings 21 and 22 with the fork lift. They were
11		palletized, stored either down there or run by elevator
12		up to the third floor where there was some storage of
13		color pigment up in Building 22.
14	Q.	So, there was direct access to Buildings 21 and 22 from
15		Kansas Street?
16	Α.	No. There was only an entrance over here in Building 22
17		but you could go through in the basement or the first
18		level floor, ground level, from one building to the other
19	Q.	But there was access to Building 22 from Kansas Street?
20	· A.	Yes. That was the main access.
21	Q.	Now, the varnishes that were supplied by the plant
22.		itself, where were they kept until they were to be used;
23		in the actual paint production?
24	A.	Originally there was there were tanks out here as
25		indicated.
26	Q.	By "out here," Mr. Marklin, you are referring to the
27		area that is south of Building 19?

		35
1	Ω.	And the varnish then was pumped from those buildings
2		to where?
3	Α.	Over into Building 21.
4	Q.	At the lower levels?
5	Α.	No. The third floor level.
6	Ω.	Were the pumps used to pump the varnish before the,
7		I guess, shall we call it, oil tank deck was demolished?
8	Α.	Before the oil tank deck was demolished, why, everything
9		was handled in drums, and these tanks were used basically,
10		I believe, for the varnish department rather than the
11		paint plant, and they did have thinner storage out there
12		also before they put in the underground tanks up there.
13	ο.	Do you remember when the underground tanks were put in?
14	А.	I don't remember the year, no.
15	ο.	But it was during the time that you were there?
16	Α.	Yeah.
17	Q.	All right. Was any of the thinner sold directly or was
18		that all used in production?
19	А.	Some of the thinner was sold directly. It was packaged
20		in the varnish department and sold as a packaged product.
21	ο.	When the oil tank deck was used for the varnish storage,
22		did I understand you then to say that that was for
23		varnish that was to be sold outside the plant?
24	Α.	Not necessarily. They received large quantities of the
25		things. They always did anticipate tried to anticipate
26		price changes in oil. If there was reason to believe
27		they would make a good buy, they would make large
28		quantities to save as much money as they could. And the

1		8 and they were there for the purpose of varnish
.2		department filling. In other words, they would make
3		a given varnish. They would put it in the tank prior
4		to package.
5	Q.	For the end product?
6	Α.	Yes. So, for retail purpose.
7	Q.	There is a reference, Mr. Marklin, to Building 19-1/2.
8		I think it says 100-gallon chemical tank. I am not sure.
9		Does that ring a bell?
10	A.	No.
11	Q.	Do you recall any tank in that particular location at
12		any time?
13	А.	No, I don't. No, I don't. It doesn't indicate whether
14		what level it is on, does it? I can't really
15		identify any chemicals.
16	Q.	Let me ask you about the thinner tanks. Those were
17		installed beneath the sidewalk, is that correct?
18	а.	That is correct.
19	Q.	Do you know who is in charge of that installation?
20	۵.	Yes.
21	Q.	Who is that?
22	A.	It was our plant engineer at the time.
23	Q.	What was his name?
24 [:]	A.	Carlton Moore, M-o-o-r-e.
25	Q.	Again, do you know his present whereabouts?
26	А.	Yeah.
27	. Q.	Where is he?
28	A.	He is retired down in Santa Cruz area.

1 in drums? 2 Those were empty. Those were empty drums, empty drums, 3 dirty or drained. You had to send dirties out that were empty and receive clean ones in return. 5 Q. They had been emptied previously in the paint factory? Α. That is correct. 7 Q. And they contained, again, what? Varnishes. A. Varnishes. Those would be varnishes produced inside? Q. 10 We had as many as a hundred to one hundred and fifty Α. 11 So, you couldn't -- and some of them were in small volumes. They were still tiny bits, you used 12 the drum. If you had a large volume of something, you 13 had storage over in that area where you could pump 14 directly. 15 What percentage of the varnish production generally was 16 Q. used in the paint production process? 17 Three-quarters of it. Α. 18 Now, you referred to a mixing area. What I would like to Q. 19 do is sort of go through the paint production process 20 step by step if we could, and is that the right place 21 to start? 22 Well, almost. The best place to start is on the 23 receiving. You receive the raw materials and transport 24 it into storage. Paint business is a batch business. 25 You decide how much you are going to make, whether it is 26 going to be 50 gallons or 500 gallons or what. You then 27 put together a batch ticket indicating all the raw 28

materials to be used. This is given to the workers out in the plant.

You in turn would collect the raw materials and make an initial mixing which is done on the third floor. And in there you take your vehicle which is your varnish, some solvent and throw all the pigment in and wet it all out and end up with a paste. After you have a paste produced on the third floor, it normally has to be ground because it is all coarse and lumpy and whatnot.

so, it goes from the third floor through a mill of one kind or another and there are various mills on the second floor. And then ends up in a paint tank down on the first floor at which point there is more solvent and varnish added. And if there is any shading to be done to a particular color, that is done at that point. And after that, it is approved by the laboratory, that particular batch of paint is packaged out.

Q. That is a hundred percent better than I could have done it by asking questions as we go along.

Alice, would you mind reading that back just so we --

MR. WEILL: Thank you.

MR. HOFFMAN: -- have that clear in our mind.

(Record read.)

Q. (By Mr. Hoffman) Mr. Marklin, whose job was it to prepare the batch ticket that you referred to?

A. It was done in the factory office. Raw material

1	Ω.	Roughly how many of those tanks or vats were there on
2		that third floor level?
3	А.	Well, at least a couple dozen, 24 to 30 of them.
4	Q.	Generally what was their size or capacity?
5	Α.	Originally when I started there, they were small 50-gallog
6		mixtures which were then later replaced by mixtures
7	,	which would make 150 to 200 gallons. When we got into
8	,	the water paint business, we went into large mixtures
9		which were one-step productions referred to as
10		dispensers, and those were thousand gallons.
11	Q.	And those were installed on the third floor also?
12	Α.	Yes.
13	Q.	Was the mixing, was that a mechanical agitation of
14		some kind?
15	Α.	Right. Pretty much as dough mixers with intermixing
16.		blades.
17	Ω.	Was the varnish or the other medium pumped in those
18		mixing plants?
19	, A .	In most cases came from drums. Later there was some
20		pumping.
21	Q.	So, there is somebody out there to pour the varnish from
22		the drum into the mixing tank?
23	A.	That is right.
24	Q.	Was part of it raised
25	A.	There is so many mixings. The material is quite
26		viscous and quite difficult to pump.
27	Q.	Was there an overhead platform? What was the process?
28	Α.	The height of the tank was about table height or a little

	bit more so the bags could be lifted. And there were
	hoists to pick up the drums and lift them over the
	mixing to drain them.
Q.	How big around were the tanks generally, again?
A	Five by five or something like that.
Ω.	Were they square or round?
A.	Rounds.
Q.	Round about five feet across?
A.	Four feet, five feet. They varied in size.
Q.	And the pigments, were they emptied then directly from
·	the bags into the mixing tanks?
A.	Right.
ο.	And the thinner, how was that introduced?
A.	That was pumped in.
0.	Into those tanks?
A.	Yeah.
Q.	Directly to the tanks?
A.	Yes, directly. Well, they had weigh scales. I think
	they went to the weigh scales and then from the weigh
	scales drained it into the mixture they were working on.
Ω.	Was that a graft process?
A.	That was graft process. The tank arrangements changed
	over the years where there were many stationary tanks.
	We eventually got rid of all stationary tanks and went
	to portable tanks that could be moved around. Portable
	agitators and things of that nature, that all evolved
	A. Q. A. Q. A. Q. A. Q. A.

That gave you more flexibility, I suppose?

over the years.

27

Metallic, I take it?

Q.

24

25

26

27

28

Metallic. A. Q. Aluminum? Do you know what they were made of? They were not aluminum. They were just regular plate. A. I take it that was a very viscous material also Q.

		그는 그렇게 하는 것이 되는 것이 하는 것이 되는 것이 되는 것이 되는 것이 없었다. 그는 사람들은 그는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은
1	Α.	Yes.
2	Q.	at that stage? Would it all flow by graft through
3		the chute down to the mill, or did they have to
4	Α.	They had to probably scrape out what was probably left
5		in the mixture, but the majority would run down without
6		any trouble.
7.	Q.	If you are going to use the mixer for something else
8		after that, they have to clean it out in some way?
9	а.	Well, there was enough mixers so you normally had
10		certain ones assigned to white and assigned to color.
11		There is green mixer, red mixer and so on.
12	Q.	Did they clean them out periodically?
13	Α.	Certainly. You had to.
14	Q.	How would you do that?
15	Α.	You can go in there with an air hammer and a chisel.
16		There is no easy way of doing it.
17	Q.	So, you can't do it with a hose or something like that?
18	Α.	No. You can't do it with a hose. In addition to all
19		that equipment, there was also what we refer to as
20		closed mills. They were large, round mills where you
21		dump all your pigment and liquid in the mills with
22		steel balls or pebbles, and these would roll for 24
. 23		hours. In that time, why, everything would be dispersed
24		and ground, and you just drain it out into a tank. To
25		say there were many pieces of equipment that were used
- 26		around, that is just another one.
27	Q.	Were those mills on the second floor?
28	A.	They were on the second floor.

	· .		
1	Ω.	We will get to that. I am trying	
2	Α.	They were loaded from the third floor, some on the	
3		second floor.	
4	Q.	I am sorry. I didn't hear the first part.	
` 5	A.	They were loaded from the third floor. You dropped	
6		your liquid from the third floor. They were located	
7	ł i	in the second floor. They were horizontal cylinders.	
8	Q.	The mills were horizontal cylinders?	
9	A.	Yes.	
10	Q.	Was this a way you could by-pass the mixing tanks then?	
11		Did I understand you correctly?	
12	А.	Yes.	
13	Q.	You could start the process	
14	A.	The mixing and the grinding simultaneously.	
15	Q.	What about the agitation? How long would that typically	
16		take in the mixing tanks?	
17	А.	Twenty minutes. I mean once it was put together. It	
18		would take longer than that to put together possibly,	
19		but once it is put together, it is practically ready	
20		to be processed further.	
21	Q.	The mixing tank cleaning, was that an in-house job?	
22		Was there a maintenance crew?	
· 23	A.	It was an in-house job. It wasn't done too often. It	
24		was done maybe two or three times a year on those.	
25	Q.	What would they get? A sludge of some kind?	
26	Α.	You get a lot of skins. You get a build-up of skin	
27		which dried over a period of time and you just chip them	

off and you get the thick skins out to go in the garbage



2

3

5

8

9

10

14

15

16

17

23

24

25

26

27

28

and out to the garbageman.

- Q. What about the inside of the building itself? Did they have any way of cleaning that just from all the waste and spills that occurred during the production process?
- A. The work areas were swept each and every day and
 vacuumed once a week.
 - Q. Did they wash them out with any kind of water or anything like that? Was that ever done?
 - A. You are talking about the mixture?
- 11 Q. No. The interior of the buildings. Other than being
 12 swept and vacuumed, I mean, were they hosed down or
 13 anything of that nature?
 - A. It wasn't practical to do anything like that. However the area was vacuumed and painted, oh, I don't know what period of time that was, but it was done for housekeeping purposes.
- 18 Q. From time to time?
- 19 | A. Yeah.
- Q. Now, you started to describe the mills that were on the second floor. Was the milling operation basically what the second floor was devoted to?
 - A. Basically it was, except it also handled the small batches, small batches meaning up to 200 gallons. The larger tanks were on the first floor. They were 500 to a thousand. And the second floor had eventually portable tanks of 100, 200 gallons.
 - Q. Again, this would be finished product?



	. 1
	2
	3
	4
	5
	6
·	7
•	8
	9
	10
	11
	12
•	13
	14
	15
e gotte. George	16
	17
e. Programa	18
	19
. ·	20
1	21
•	22
	23

A.	You	ground	1 th	e pa	ste	into	them	and	finished	the
·	p1 00	iucts :	in t	hose	tan	ks, y	yes.	•	٠.	

- Q. But for the most part the base that came out of the third floor went into the mills on the second floor?
- A. Yes. And those mills could in turn put it into tanks in the first floor or into portable tanks on the second floor.
- Q. How did it get from the mills? Well, did you have a name for what resulted after the product had gone through the milling stage?
- A. Well, it was still the same thing as you had on the third floor except it was then ground and dispersed.

 It was still a base. It was not a finished product until additional vehicle and/or solvents were added to it.
- Q. Was it still a relatively viscous substance?
- 6 A. Yes.

26

27

- Q. How did it get from the mills down to the tanks on the first floor?
- 19 A. By chutes again.
- 20 Q. Open chutes?
- 21 A. Open chutes.
- Q. Same kind of chutes as took it from the third to the second?
- 24 A. Third to -- right.
 - Q. These mills, did you say they were horizontal cylinders?
 - A. No. That was one type of mill. The ones that we talked about feeding from the third floor, those were roller mills which consisted of three roller mills or five

that level of the process?

is being agitated. These are things that you are getting In addition to that, you had what we refer to Were the mills installed in some kind of tank or It was sitting on the floor. You can feed on top. It had an outlet where you can put it in a tank or chute Then when the product got down on the first floor from It was reduced with more solvent and varnishes or latex, whatever you are making, and then processed through the control laboratory for required shading. It is shaded there, again passed through the control laboratory for Tinting. You start out with white and you want an ivory. If someone has to put color into it, so they use tinting colors and added to that to match whatever standard of color they were trying to match. So, were these other pigments then that were added at

25

26

27

Not dry pigment. They were paste. A. Earlier you referred to the lead chromates. 2 Q. example, did they come in the form of a powder or as a paste or --It came as a powder which we would make into the form 5 A. 6 of a paste. 7 0. Where was that done? Same process I got through telling you, from the third 8 A. through to the mills. Instead of going into tanks, as 9 a paste, it was packaged off in five-gallon cans or 10 11 tanks. It was used to tint or shade --12 0. Shade. 13 A. -- the paints? 14 Q. Α. Right. 15 The other lead that was I think I forgot to ask you. 16 Q. used as a pigment, what form did that come in or what 17 compound was that? 18 That came as red lead or white lead powder. And for a A. 19 period of time there was a lead paste that was also 20 brought in. 21 Was that a lead oxide of some kind? Q. 22 Lead oxide. A. 23 In the case of both the red and white? Q. 24 No. Not -- white came in as a paste. Part of the time A. 25 it also came in dry. And red lead always came dry. 26 Were both of those leads oxides? 27

They are both oxides.

	ł ·	
1	Q.	And the zinc, in what form did that come?
2	A.	They came in 50-pound bags dry.
3	ο.	Was that a zinc oxide?
4	Α.	Yes.
5	Q.	The mills on the second floor, were they cleaned out
6	,	periodically also?
7	Α.	They were cleaned out after each and every batch. You
8		normally would flush material through or just wash them
9		down afterwards.
10	Q.	So, cleaning those was a different process than from
11		cleaning of the mixing tanks?
12	Α.	The mixers were not cleaned. They were scraped out or
13		cleaned maybe once or twice, three times a year,
14		depending what they were. The mills were washed down
15		after every batch.
16	Q.	Was that material less viscous or was it something that
17	,	was possible to wash down as opposed to the mixing tanks?
18	Α.	No. Mills had to be kept clean. They had to be kept
19		clean because you are changing from one product to
20		another and you it was a matter of proper operation
21		with clean equipment.
22.	Q.	Was that with water they were washed down?
23	Α.	If it was a water product.
24	Q.	Otherwise
25	A.	It would be solvent.
26	Q.	Solvent?
27	Α.	Yes.

What would they do with the washings then?

You could

•	1	55
1	A.	In the case of solvents it was collected in drums and
2		sent out. It would collect down in the first floor,
3		collected in drums. We had drums around us, around
4		the different levels, and whenever anyone had any
5		washings, they would wash into the drums. When the
6		drums were filled, they would go out for recleaning.
7	Q.	How did they get the washing out of the mill is my
8		question.
9	Α.	Same way they got paste go through the mill. The paste
10		runs out with water or solvent, would run out the same
11	<u> </u>	way except you collect it.
12	Q.	Down at the first floor you collect it?
13	А.	No. No. You could do it all in the second floor.
14	Q.	I see.
15	А.	They had spouts, say, this high off the floor. You could
16		either run them all the way through the floor below.
17		You had the drum under it or whatever, but you could
18		collect directly off the mill in all cases.
19	Q.	How high off the floor were the mills?
20	Α.	They were sitting on the floor, but they were, shall we
21		say, six to seven feet high, possibly, and the paste
22		tank which the paste came was four feet, something like
23		that, above floor level.
24		Those are roller mills. In the case of the
25		closed mills, with the pebble and ball, why, you could
26		flush through with the formula and clean the mill out
27		just by flushing additional thinners or varnishes that

were going to be part of the batch, anyway.

1		Q.	When the material got to the tanks on the first floor
2	ŀ	,	with their spouts, how was it then moved from the tarks
3	ľ		into the one-gallon cans or whatever the final container
4		•	was?
5		A.	Tank spouts and outlets at the bottom of the tank, most
6	, .		of those tanks were filled by a filling machine, and
7	.		the filling machines were portable. They could be moved
8	,		under the spouts of the tanks. Material was strained
9	,		into the filling machine which had its own small hopper,
10	,		and you would fill off in five-gallon cans, one-gallon
1	ı	ν.	cans, quarts or what have you.
13	2	Q.	Somebody had to operate the machine?
1	3	Α.	Oh, yes.
1	4	Q.	It wasn't like a conveyor belt or something?
1	5 .	A	No. There were two operators on every machine.
1	6	Q.	When the pigments were put into the mixing tanks, how
1	7		did they get from the storage area where they came in
-1	8		off the street up to the third floor?
1	9	А.	Some of them were in storage in Building 22 on the third
2	0 -		floor. Others that were down on the ground level were
2	1		brought up by elevator by pallet.
2	2	Q.	They just moved them into the pallets or whatever the
. 2	23		tank was that was going to be used?
2	24	A.	Yes.
2	25	Q.	And be manually dumped into the tank?
2	26	Α.	That is right.
	27	Q.	I think you described them as a powder, is that correct?
	28	A.	That is correct.

You lifted the drum up either with a hoist or put it on

1		the table of one kind or another level with the top
2		of the mixer. You put the varnish in first. And once
3		the varnish was in there, then when you put the powder
4		in, the mixer would be running and it would start
5		wetting out the powder at the time it was being put in.
6		At what stage would the thinner be pumped in?
7	Q.	That would be put in along with the varnish. Liquids
.*	Α.	are normally put in the mixer first and then the powder
8		
9		is the last thing that goes in.
10	Q.	Were there many different types of thinners used?
11	Α.	Yes. There were all kinds of thinners used.
12	Q.	What were the principal ones?
13	A.	Something referred to as good old mineral spirits is
14		probably the most common thing you buy in any store.
15 .	ο.	Is that naptha or napthalene?
16	Α.	That is not the most common. Napthalenes are, you might
17		say, of a higher solvency than your common fun-of-the-
18		mill solvents.
19	Q.	When the varnish was poured in, was there opportunity
20		for some of that to spill also?
21		MR. WEILL: Excuse me. Before we go on, can I
22		get the spelling of napthalene?
23		MR. HOFFMAN: I think n-a-p-t-h-a-l-e-n-e.
24		THE WITNESS: That is a good guess.
25	Q.	(By Mr. Hoffman) Was there opportunity for some of the
26		varnish to spill out that is put into the mixing tanks?
27	λ.	Not really. But there again, minor drippage is unavoidable
	Q.	Is there any procedure for when this happens what would
28		

1		be done?
2	Α.	Certainly. Clean up immediately.
3	Q.	Right away?
4.	A	Yes.
5	Q.	Same in the case of the pigments?
6	Α.	Yes. Well, as soon as the batch was completed.
7	Q.	What about the chutes that took the base from the third
8	·	floor to the second floor? Could they overflow or did
9		anything spill out the hoses that went to the floor?
10	Α.	No, not really. Well, there could be spillage on rare
11		occasions, but they were scraped down and then washed
12.		down normally.
13	Q.	But I mean was the flow ever such that some of it
14		spilled over the side, something of that nature?
15	Α.	Very seldom. They were high sided, about six inches
16		high, six inches wide so that the trough there was
17		a reasonable ledge. You could slow down the mill, anyway.
18	Q.	How was it controlled, the feeding from the mixing down
19		through the chute?
20	Α.	There were gates with control handles. And down the
21		stairs where the mills were which controlled the gates
22		upstairs where the mixers were.
23	Q.	So, the mill operator controlled the flow?
24	A.	That is right.
25	Q.	How about overflowing to the mixing tanks? Do they
26		overflow if somebody put too much of something in there?
27	Α.	They couldn't do that because they were there when the
28		thing was put. They put the powder and the liquids so

1 they couldr't overflow. 2 0. What about the milling machines? Did they ever overflow in any way? If somebody made a mistake and let too much of the material in, what would happen? They couldn't do that either. You could overflow, but 5 A. they had pans for collecting that type of thing underneath the mills. It never got onto the floor. 7 these pans would catch any overflow that did happen and it would be cleaned up after the batches run through. What were the floors made of? Like on the third floor, 10 Q. what was the flooring? 11 That was two by tens or two by twelves on edge with 12 Α. steel plates on top of that for all aisleways, the 13 work areas. 14 Any concrete? Q. 15 Not on -- what buildings are we talking about? A. 16 Again, on the third floor of 19 and 21. Q. 17 No concrete. A. 18 And the plates were in the aisleways? Q. 19 The heavy-duty flooring that I told you about was Α. 20 Building 21 and 22. Building 19 did not have the 21 heavy flooring. 22 What type of floor was there? Q. 23 Two by twelve, ten-inch center or what, I don't know. Α. 24 Wood flooring on top of that, and then, of course, four 25 by eight steel plates on the aisleways and work areas. 26 What about the second floor? Was it similar, the Q. 27

flooring?

A. That was similar.

Q. And the first?

A. Similar.

Q. What I would like to do now is to ask you, if you could, to give us as a starting point a kind of capsule description of the varnish manufacturing process similar to what you gave us for the paint process.

I think that will help us move along as rapidly as we can.

Before Building 5 was built, which was two large reactors, varnish was made in open kettles. These kettles were about 200 to 250-gallon capacity. And you would add to these kettles hard resin such as rosin, for example. And to that you would add oil which could be linseed oil, safflower oil, tongue oil, China wood oil. These kettles are put on open fires and heated up to 450-500 degrees, maintained at that temperature for 15 minutes to maybe an hour, depending on what was being manufactured.

Then they were removed when the reaction was considered complete and solvents were added to it to bring it to about 50 percent solids, and that was the completed batch of varnish. Now, that is the way it was originally made in all these fire hoses and stacks that were there that were for that purpose.

Q. When you say "there," can you tell us which location that is?

. Well, that is your brick chimney right there, all that

Q. In Building 6?

The varnish was, but not the litharge. 2 Q. Not the litharge? Not the litharge I don't think because you had lead. A. You had white lead. There was no need for litharge. Litharge was used in varnish because it was more reactive than other forms of oxide. That is why it 7 was found in the varnish department. 8 Do you have any idea how much of the white lead would Q. 9 have been used in the course of a year when two or three 10 million gallons of paint were produced? 11 A. I wouldn't want to attempt to guess that one. I wouldn't want to attempt to guess that. 12 How about red lead? Did you have any estimate of what 13 Q. quantity it would take to make that amount of paint? 14 Couldn't possibly. Couldn't possibly begin to guess. Α. 15 It varied from year to year because, as I say, in the 16 early years, why, lead was the favorite pigment for 17 exterior paints. And then it was gradually replaced by 18 And during the war years, you had red lead 19 primers go in the shipyard. They had all those things 20 And from year to year, why, you never had happening. 21 the same profile. 22 What largely replaced lead as a pigment? Q. 23 Titanium, zinc. Mostly titanium. Α. 24 Why did that occur, the replacement of the pigment? Q. 25 Well, there was a growing feeling from the various 26 health agencies that lead was contributing to illnesses 27

28

amongst youngsters who were getting lead paint and chev

on it that were on porches or wherever it might be applied. So, there was a growing feeling that lead was not a good thing to have in products. And before legislation was passed, they actually started phasing it out. They did phase it out.

- Q. When did that phasing out begin?
- A. I can't give you a date on that one either.
 - Q. Were there any other concerns about lead other than the instance of children eating the paint chips and flakes?
 - A. That was the biggest concern that I seem to recall hearing about.
 - Q. Was there any concern at the time during the time that you were at the plant in regard to working around lead?
 - A. No.
 - Q. Were there any kind of special precautions taken as far as the employees who worked with the lead?
 - People that worked on the mixing floor were all issued respirators which were basically to keep them from inhaling dust, which it is lead or talc or silicates or anything, and these they were expected to wear all the time. So, other than that, there was no special precautions. There were certainly a safety committee which attempted to see to it that things were kept sanitary, encouraged the workers to be sure and wash up after they got through work before they went to lunch and things of that nature. Also before they went home.

1	Q.	(By Mr. Hoffman) Building 28. There was an entrance
2		then from 24th Street into the yard?
3	Α.	Used occasionally only.
- 4	Ω.	Other than the area you just described, were there any
5		other part of the property that sloped?
6	A.	Obviously you had a different elevation between Rhode
7		Island and Kansas. You had quite an elevation change
8		between this corner and that corner of the property.
9	Q.	You are saying between the corner of Kansas and 24th
10		rather than Rhode Island and 24th?
11	Α.	Right. The same onto 23rd. You were still on a slope.
12	Q.	The property there was not level? It sloped from
13		Kansas up to Rhode Island?
14	А.	Right.
15	Q.	Getting back to the other question, do you know of any
16		excavation on the property that National Lead carried out
17		during the time that you were there?
18	A. `	That was for the buried tanks. That is the only thing
19		that I can think of.
20	Ω.	Did they dig up the sidewalk?
21	A.	Yes.
22	Q.	Do you know if any kind of permit was obtained in order
23		to do that?
24	А.	I am sure there was a permit. I am sure there was a
25		permit. I don't think they could do that without a
26		permit.
27	Q.	Whose job would it have been at that time to obtain a
28		permit if it was needed?

1	Q.	Do you remember how you learned of the decision that
2		the plant was going to be closed?
3	Α.	How I learned?
4	Q.	Who told you or whether you received a memo.
5	A.	There was no memo. They had a meeting, this Ken Specht,
6		which you have a note of, plant superintendents and
7		managers from Seattle and Los Angeles and San Francisco,
8		they said they want to close it down. Just like that.
9		It was a timetable.
10	Q.	How long did the timetable turn out to be from when
11		you were told and the plant was closed?
12	Α.	Close to around four to six months. I don't recall
13		exactly now. There were little things like phasing out
14		production, transferring production, notifying the
15		union, disposing of equipment and a lot of little details
16		What do you do with all the people? We had salaried
17		people, laboratory facilities, supervision you had to
18		make up, all kinds of personnel problems to solve,
19		terminate, transfer.
20	Q.	Were you overall in charge of that shutdown?
21	A.	Sorry I was.
22	Q.	Kind of sounds like
- 23	A.	It was not one of the pleasant jobs.
24	Q.	Was any effort made to sell the plant?
25	A.	I don't know that it was or not. Part of the reason
26		that there wasn't any effort made, I think, was that
27	• •	we had notice from the City of San Francisco to vacate
28		the premises by 1980. Now, everybody was aware of that

1		and we knew we had to vacate the premises by them. It
2		caused us to comply with the notice we had.
3	Q.	Do you know what the basis of that notice was?
4	Α.	It was residential zoning there. We were an industrial
5	·	operation in a residential zone, and I don't know how
6		much notice they gave us. It was 15 years or 20 years,
7		but it had been on notice for a long time and I if
8		my memory is correct, 1980 was the deadline to vacate.
9	Q.	From the time you came there in 1942, was it always
10		residential along 23rd Street on the other side of the
11		street?
12	A.	Yeah.
13	Q.	And on the other side of Rhode Island was it residential
14		there?
. 15	Α.	Yeah.
16	Ω.	Exhibit A doesn't show 24th Street.
17	А.	That was residential there also.
18	Q.	On Kansas?
19	Α.	Well, you had the freeway down below.
. 20	Q.	Was this there even in 1942?
21	A	I don't recall any homes in there. I don't remember
22		when they built the freeway.
23	Q.	I thought it was in the fifties, but I am not certain.
24		I could be wrong.
25	Α.	I don't remember any residences down there.
26	Q.	But I take it there wasn't any kind of industrial
27		operation either.
28	A.	No.

	l'	T. J. J.
1	Q.	How long was the conversation?
2	Α.	Ten minutes. Fifteen minutes at the most.
3	Q.	Mark the subpoena and the declaration as Exhibit 2.
4		(Whereupon a Civil Subpoena and the Declaration in Support of
5		Subpoena Duces Tecum were marked as Plaintiff's Exhibit
6		Nos. 2 and 3 for identification only by the Notary Public and
7		attached hereto.)
8	ο.	(By Mr. Hoffman) Mr. Marklin, would you look at what
9		has been marked as Plaintiff's Exhibit Number 2? Could
10		you tell me if you received a copy of that subpoena
11		from me?
12	А.	Looks like what I received from you, yes.
13	Q.	Did you also receive a copy of what has been marked as
14		Plaintiff's 3 which is the Declaration in Support of
15		Subpoena Duces Tecum?
16	A.	Yes.
17.	Q.	On page 2, paragraph 2-A of that Declaration, there is
18		a description of some documents. Could you take a look
19	1	at that description and tell me whether you have any
20		documents that meet that description?
21	A.	I have nothing in the way of documents, pictures or
22		otherwise relating to the premises there on 24th Street.
. 23	Q.	Did you review any kind of documents at all in preparation
24		for this deposition today?
25	A.	No.
26		(Recess.)
27	Ω.	(By Mr. Hoffman) I just have a few more questions.
28		Mr. Marklin, do you know of any operations by National

Α.

Lead during the time of the 1942 to 1970 period you were at the property of any lead that could have been introduced in any of the soils on the site?

- I can't imagine how it got into the soil in all honesty.

 I would have to stop and say how could it happen, and

 I can't visualize how it could happen.
- Q. Is there any aspect at all of the materials handling that you described for us today that could have resulted in lead being introduced into the soils?
 - Heuter who operated the plant from 1878 to 1927, they primarily started their paint business by buying lead from National Lead Company and making lead products.

 Now, my understanding of the history is that the varnish department started originally, then Heuter came along and wanted to introduce paint also. He then started to buy lead from National Lead and make lead products. And I recall one of the pictures I saw of 23rd Street and Kansas, I believe, looked like they were still dirt roads, and these buildings were put together topsy-turvy, piecemeal. I think as the plant grew there was a lot of lead handled, I think, by Bass Heuter, and I think that there wasn't much paving in those days.

Now, when paving came in, what was done or how it was done, I can't answer that. I don't know. But I could visualize that working under those primitive conditions, if you want to call it that, could very easily have spilled materials around the place.

. 1	ο.	These old pictures of the Bass Heuter plant, where did
2		you acquire those, do you recall?
3	Α	Found them when I moved into the manager's spct. I
4	<u> </u>	found them in the files. They had been buried there
5		for God knows how long, all brown and faded.
6	ο.	This was in 1966 when you took that job?
7	Α.	About that.
8	Q.	From whom did you learn the history of the site when
9		Bass Heuter had it?
10	А.	Well, I talked to other people on this. I talked to
11	<u> </u> 	our plant manager. He's the one that seemed to be right
12		up on the history not the manager of the plant. The
13		engineer seemed to be quite up on the history on some
14		of these things more so than I was.
15·	Q.	This is Mr. Moore?
16	A	Yes.
17	Q.	Do you have an address for Mr. Moore?
18	Α.	Not with me.
19	Ω.	Is it possible you have one at home?
20	A.	I have one at home.
21	Q.	Would you be willing to supply that for us? You can
22		write a letter to Mr. Weill or me, however you choose.
23	Α.	To give you the address?
24	Q.	I'd make that request, if you would.
25	А.	(Witness nods head.)
26	Q.	Was there anybody else that you learned of the history
27		of the site when it was in the hands of Bass Heuter?
28	Α.	Over time a lot of it went in one ear and out the other.
	1	

		·
. 1		There was really no interest.
2	Q.	Was Mr. Moore the one who told you about Bass Heuter
3		having bought lead from National Lead Company?
4	Α.	Well, I knew that that was the case because there were
5		used to have relics all over the place, Bass Heuter
6		label cans, that type of thing. Bass Heuter labels
7	[that was manufactured by Bass Heuter, we used to have
8	<u> </u>	them around as a display at one time. That is the reason
9	·	that National Lead bought the place in the first place,
10		because lead paint was being made and lead was National
11		Lead's business at that time. So, it was compatible.
12	Q.	National Lead, were they not in the paint business before
13		they bought the San Francisco plant?
14	Α.	I don't think they were. I think the San Francisco
15		plant was their entry into the paint business.
16	Ω.	Let me be sure I understand. Bass Heuter, as you under-
17	·	stand it, was buying lead from National Lead in the same
18		way that National Lead later bought lead from itself to
19	:	use in paint manufacturing?
20	А.	Yes. Is my understanding.
21	Q.	Do you know whether the San Leandro facility existed
22		at that time?
23	A.	I don't know when that thing started.
24	ο.	Is that operational today?
25	Α.	I don't think so.
26	Q.	Do you know when that was closed down?
27	Α.	No, I don't.
28	ο.	Was that a distribution facility of some kind or

1	Α.	It was a manufacturing point for lead oxides and battery
2		oxides.
3.	Q.,	What division of National Lead would that have been
4		under?
5	а.	They had several facilities for processing lead, every-
6		thing from recovering lead from batteries to taking lead
7		and converting it to oxides. And I am trying to think
8		whether they call it the lead division or the metals
9		division. Whichever it was, I am not sure now.
10	Ω.	At San Leandro did they receive the lead as some kind of
. 11		primary metal and then convert it into oxide?
12	Α.	Yes.
13	Q.	Did National Lead have lead mines or lead properties
14	•	that it controlled?
15	Α.	They had mines. Whether they were lead mines, I am not
16		sure. They had a regular mine division, I know.
17	Q.	Again, when you told us about Bass Heuter, I asked
18	į	whether there were any aspect of the materials handling
19		by National Lead that you know of that could have
20		resulted in lead being introduced into the soils at the
21		site.
22	А.	No. I can't think of anything in the way of handling
23		that would be a contamination.
24	Q.	What about zinc, if I asked you the same question?
25	Α.	Same thing would apply.
26	Q.	In any of the buildings on the site do you know of any
. 27		conditions which could have resulted in lead or zinc or
28		other metals going through the floors of the buildings an

into the soil in that fashion?

- No, I can't. But then you must remember that there has been powder pigment handled in that area for close to 90 years or so. There is no way of imagining all the things that could have happened. All I can say is what I know happened. I don't know of any way it could happen other than if you want to talk about dust accumulating over 90 years, why, you are going to have an accumulation. It will include not only lead. It will include everything, include clays and talcs and titaniums. And it wouldn't be limited to just lead.
- Q. This would be inside the buildings as well as outside?
- A. Yeah. Well, the outside, you do have rain and that
 washes things down. And we did have housekeeping interior.
- Q. But could some of it have been absorbed into the bricks and other materials that the buildings are made of?
- A. How much could you absorb in the bricks?
- Q. And the wood? It could absorb in the wood of the building?
 - A. Again, how much can absorb there? All you can do is sweep up. You can't go soaking wooden floors. Even if you did, there is no indication that you would remove it. You can just clean up as best you can, sweep up. And, of course, we did vacuum regularly.
 - Q. Do you know whether National Lead ever owned Bass Heuter at any time?
 - A. No. I don't know. When they first bought it, they may have retained the Bass Heuter name for a period of time

1		I believe that they did use the Bass Heuter label when
2		they first acquired the operation. That preceded the
3		Dutch Boy label, and for a while I think they used both
4 .		labels.
5 .	ο.	Were the Bass Heuter labels used at any time when you
6	<u> </u>	were there beginning in 1942?
7	Α.	I don't believe they were.
8	Q.	Did you say earlier there were some containers or some
9		things that you saw around the property with Bass Heuter
10		labels?
11	A.	Yes. There were some labels laying around. I think they
12	ľ	were stuck in some corner, one place or the other.
13	Q.	I want to show you that. It comes from the EIR.
14		Could you mark that.
15		(Whereupon eight pages of documents
16		entitled CHEMICALS FOUND ON PROJECT SITE were marked as Plaintiff's Fybibit No. 4 for
17		Plaintiff's Exhibit No. 4 for identification only by the Notary
18		Public and attached hereto.)
19	Q.	(By Mr. Hoffman) Mr. Marklin, I've handed you what
20		has been marked as Exhibit 4 which is a portion of the
21	:	EIR that was prepared by the Bendix firm people that you
22	ľ	had a discussion on the telephone with. I just want to
23		ask you about some of the items on that list.
24		Just for your reference, this is a list of
25		materials that were found on the site, on the property
26		site, in 1980 at the time it changed hands from Synanon
27		to 2222 Limited, which is the organization for which
28		Mr. Kaplan is the Receiver.

		The state of the s			
1.	Q.	What about the Dowtherm reactors? Were they sold?			
2	Α.	That was sold. Reactors were sold. All the open			
3		kettles were sold. There were still some small			
4		manufacturers, I believe, down in the Peninsula that			
5		did that type work. I don't recall who they were now,			
6		but at that time I remember I was surprised that someone			
7		would be interested in kettles.			
8		(Whereupon a one-page document			
9		entitled TOXICITY OF TYPICAL INORGANIC PAINT PIGMENTS was			
10		marked as Plaintiff's Exhibit No. 5 for identification only by			
11		the Notary Public and attached hereto.)			
12	Q.	(By Mr. Hoffman) Mr. Marklin, let me show you another			
13		portion of the Environmental Impact Report, page 176,			
14		which is a list of some paint pigments. What I want to			
15		do is just ask you which of those were used by National			
16		Lead in its operations on the property. The first one,			
17		I guess we know the answer. That is litharge or lead			
18		oxide. That was used, is that right?			
19	A.	Yes.			
20	Q.	The second one shows a common name of orpiment, and the			
21	<u> </u>	chemical name is arsenic trisulfide. Was that compound			
22		used, to your knowledge?			
23	A.	I can't I can't identify its end use or I can't			
24		identify it as something we had purchased and had on the			
25		premises even.			
26	ο.	The next one is a copper compound with a cormon name of			
27		Paris Green, and I am not even going to attempt the			
28		chemical name. I will let the exhibit speak for itself			

	1	•
. 1	λ.	I recognize that, yes.
2	٥.	In what form was that used?
3	A	That is a powder.
4	Q.	Was it a pigment?
5	A.	Yes.
6	Q.	Used for coloring?
7	A.	I believe that may have been one of those that was used
8		for bottom paints for bolts, specialty pigment.
9	٥.	Next they show Realgar, which is an arsenic disulfide.
10		Was that compound used?
11	Α.	I don't identify it as to where it was used. I don't
12		really recognize it.
13	Q.	Cadmium yellow, I think, is cadmium sulfide. I think
14		you testified this morning that was used to some degree.
15	Α.	Yes.
16	Q.	The next is cadmium red which is cadmium sulfide/cadmium
17		selenide mixtures. Was that used?
18	A.	I don't recall. But I suspect that we did. We had at
19		one time just about every color pigment that was ever
20		made in the plant at one time or another.
21	Ω.	All right. Then next is lead chromate, chrome yellow.
2,2		I think you said that was used.
23	A.	Yes.
24	Q.	And then red lead is another form of lead oxide, and
25		that also was used?
26	Α.	Yes.
27		MR. HOFFMAN: I think that is all I have.
		·

	1	
. 1	A.	To the best of my knowledge, it is used everywhere.
2		Nothing has changed with zinc. All I can say is I have
3		been away from it now for four and a half years. I don
4		know what they may have come up with or changes they have
5		made. I can say of what I know now or knew of when I
6	<u> </u>	left. They are always changing regulations.
7	Q.	On one point, you testified in response to a question
8		by Mr. Hoffman about wash water occasionally being put
9		in sewers.
10	А.	Yes.
11	Q.	Now, what did that refer to? What kind of material would
12.		you end up with wash water?
13	A.	That would be the water based products.
14	Q.	Only water base products?
15	А.	Yes.
16	Ω.	Based upon your knowledge today, do you believe that
17	ļ.	NL did anything improper in its handling of chemicals
18		during the time period 1942 to 1970 in the San Francisco
19		paint factory?
20		MR. HOFFMAN: I object to the form. It is
21		irrelevant what he believes.
22	Q.	(By Mr. Weill) You can go ahead and answer it.
23		He just put an objection on the record.
24	а.	No, I don't know of anything that we've done wrong or
25		would have done differently.
26	Q.	That was actually a separate question I was going to ask
27	† -	you. Looking back today can you think of any practices
28		NL had in regard to handling the chemicals that you wo
	1	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1

1	Q.	During what period was that?	
2	Α.	For a couple years preceding the shutdown.	· /
3	Q	The 1970 shutdown?	<u>(</u>
4	A.	Uh-huh.	
5	Q.	Why did you call Mr. Stubb?	-
6	Α.	I wanted to refresh my memory on the disposal of	
7		materials.	
8	Q.	Did you talk to him about the disposal practices that	
9		were used when the plant was in operation?	
10	Α.	He confirmed what I already believed.	
11	Q.	And that was?	
12	Α.	About the disposition of wash solvents and wash waters	•
13	Q.	When he was the plant manager was he in charge of the	
14		disposal operations?	
15	Α.	Yes.	(
16	Q.	Reporting to you?	"a.,, e
17	А.	Yes.	
18	Q.	When you became the is it production manager?	
19	Α.	Yes.	
. 20	Q.	Did you put in some improvements in the cleanup and	
21		disposal procedures at that time?	
22	A.	I don't think anything was changed.	
23	Q.	Did you yourself at any time ever direct any changes	
24		be made in the cleanup and disposal procedures?	
25	A.	No.	
26	Q.	I think you testified earlier there were some areas	
27		that were in need of improvements as of an earlier time	:e?
28	Α.	I would say not any question of disposal, just as a	(

. *		matter of housekeeping mostly.
2	Ω.	What areas are those that you would improve?
3	A	I would say the wash department just more or less,
4		sweep up, orderliness in terms of where materials were
5		stored, neatness basically.
6	Q.	Was it you that put those new procedures into effect?
7	A.	Yes. I would say that.
8	Q.	When was that?
9.	A.	When I got in there, sixty, whatever it was. '63, '64,
10		'65.
11	Q.	Did you talk to Mr. Stubb on the telephone?
12	A.	Yes.
13	Q.	How recently was that?
14	A.	This morning.
15	Q.	It was just on that one occasion you talked to him
16		recently?
17	А.	Yes.
18	Q.	About how long did you talk to him?
19	A	Five minutes.
20	Q.	When was it you collected the pictures and materials
21	·	that had to do with the earlier days of the operation of
22		the plant?
23		MR. WEILL: Let me just insert an objection to
24	1	the form. That is beyond the scope of the cross. You
25		can go ahead and answer.
26		THE WITNESS: I don't recall the date. I really
27		don't.
28	Q.	(By Mr. Hoffman) Was it when you were still at the San

SUPERIOR COURT OF THE STATE OF CALIFORNIA

FOR THE CITY & COUNTY OF SAN FRANCISCO

THE SYNANON CHURCH,

Plaintiff,

NO. 804196

FOXCROFT ASSOCIATES, a Partnership; RANDALL P.

BAUKNEY; STEPHEN P. BEREZIN; JOSEPH SKIFFER; and DOES 1 through 10 inclusive,

DEPOSITION OF:

KENNETH C. SPECHT

Defendants.

FOXCROFT ASSOCIATES,

etc.,

Cross-Complainants,

THE SYNANON CHURCH; N.L. INDUSTRIES, etc.,

Defendants.

Adler & Annun Reporting Service Inc.

Certified Shorthand and Stenotype Reporters

SUITE 534 24 COMMERCE STREET

NEWARK, NEW JERSEY 07102

622-5974 Deposition suites available

I am very familiar with it. The company bought that plant out in the late twenties. 3 That is, NL Industries bought it? 4 National Lead or NL Industries bought it 5 out in the late twenties. That was before I joined them 6 7 but that was the story that I heard. 8 Was that the San Francisco plant you 9 were referring to? Yes. 10 When you were working at NL especially 11 during the early years did you ever meet anyone working 12 for NL who had worked for Bass-Hueter before that? 13 Most of the people that I had worked 14 with had worked for Bass-Hueter. 15 Was that during the first period that you 16 were stationed in Los Angeles? 17 Yes. We sold Bass-Hueter paint. The paint 18 that we sold was sold under the Bass-Hueter label, the 19 bulk of it. 20 Was that formulated in the same manner 21 that Bass-Hueter had formulated it previously? 22 With some modifications. 23 Do you know how long that continued that 24 paint was sold under the Bass-Hueter label? 25

1Ò

A I can't give you an exact answer on that

The company, NL Industries, began broadening their market
in the East and they manufactured a very simple line of
white paint products which were called Dutch Boy under a
different label and we began to shift from Bass-Hueter
because of the advertising of the Dutch Boy lead and Dutch
Boy products to the Dutch Boy label gradually by imprinting
a small Dutch Boy on the Bass-Hueter labels, Bass-Hueter
paints manufactured by the makers of Dutch Boy.

Q Dutch Boy was an NL trademark, I take it?

A Yes.

Q Had NL Industries been in the readymade paint business before Bass-Hueter was acquired?

A Not that I am aware of.

Q Did you ever learn from anyone how long
Bass-Hueter had operated at the San Francisco location
before NL bought them out?

A Rumor had it and the story which I had reason to believe was that Hueter started to manufacture varnish in a shed adjacent to his house on the northwest corner of the property in the eighties, perhaps 1885 or thereabouts.

That's 1885?

A Yes.

Q Did you ever learn from any source when paint was first manufactured at the property?

A I can't give you the exact date. Again this was hearsay or just knowledge I picked up. Hueter apparently had learned the trade in Germany or some other place, was successful, he was joined by a paint man by the name of Bass, hence, the Bass-Hueter name, some time after he began operation and from this original shed they began expanding, buying lots and acquired the block and put up or built the Bass-Hueter factory and company.

Q Do you remember the names of any of the persons or the sources from which you learned this information about the Bass-Hueter Company?

A It was common knowledge amongst the oldtimers. I don't remember. I don't recall.

Q I have a few names of some people here.

Let me see if they jog your memory as being among the people that were associated with Bass-Hueter that you may have met in the early years. There was a Mr. R.P. Prentys.

A Yes. He was the manager.

Q He was the manager of the San Francisco facility?

A Of the Coast.

Specht- direct

28

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

New York, Boston, Massachusetts, where lead had been used on interior finishes it was one of the prime component. of the old-fashioned paints, as the plaster lost its gauge or had become loosened and began to fall in the tenaments, little chunk of plaster would fall coated with many coats of lead paint and it was ingested by small children, babies and whatnot, and there was a big to-do about infants being infected with lead poisoning after eating fallen plaster in Brooklyn, Boston and all the slum areas.

During the time you were stationed on the West Coast, that is, up until 1950, was lead considered a hazardous material in any way?

No, except if it was ingested. People who sprayed lead were required to use respirators so that they didn't breathe it in.

Were there any materials again during the period up through 1950 used in the paint production process that were considered hazardous materials at that time?

I can't put a date on it but mercury, which was used as a fungicide, was considered or was in the process of being considered as a toxic material and mercury came into popular use as the water paints, latex paints

10

q

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

became popular.

Referring now to the San Francisco facility were the lead pigments added to the paint mixed by hand in the production process?

Well, it was used in two forms. One was in dry powder and the other was in liquid paste. A good part of ours were added as paste because we were making paste in Melrose but some dry powder might have been used.

> The paste, was that shipped in drums? : Q

Yes.

Then how was that actually physically Q added to the paint mixture when it arrived in San Francisco?

> It was dumped in. A

And that was into a mixing tank? Q

Yes.

Was the same also true of the powders, that they were dumped in?

Yes, as far as I know. I am no authority there. I didn't spend a lot of time on the mixing floors. I had other things. Production wasn't my deal.

I see. Well, in the course of that production process as you understood it at San Francisco were there opportunities where some of the lead pigments could have been spilled inside the plant by the handling

of them?

A Oh, yes, that was always a possibility, but we had a very neat plant and it was vacuumed and it was swept up and it wouldn't be allowed to stay. The floors, as I recall, when I would go through them were clean.

They were swept every day or they were vacuumed. It was a clean operation.

Q Were they washed? Were the floors washed up in some way?

A Yes.

Q Would they do that with ordinary water or solvent?

A Water normally.

Q What did they do with the wash water then, do you know?

A Well, no, I don't know exactly. I think that if it had any body or any amount it was stored outside and it was hauled away in drums to a dump.

Q Was there a loading dock or a deck that you recall there where some of those drums were stored before being moved off of the property?

A My memory is hazy on that. I don't recall

Q What about the varnish? How was that added to the paint mixture?

AD CO., BATOSEL, N.J. 07002 . FORM 2048

		Specht- direct	
2		Specht-direct Yes.	
3	Q	What generally was the nature of your	
4	involvement?	and generally was one nature of your	
. 5	A	I shut it down.	:
6	Q	Did you recommend that to someone or	
7		n you were able to take on your own?	
8	A	No. I recommended it to the president of	
9	the company.		
10	Q	And who was president then?	
11	A	I think J. M. Martino or it could have	
12	been E.R. Rowley.	I don't remember exactly.	
13	Q	Was Los Angeles still operating at that	
14	time?		.*
15	, A	Yes.	
16	Q	Was Seattle still operating then?	
17	A	Yes.	
18	Q	Why did you recommend that the San	
19	Francisco facility	y be shut down from production?	
20	A	It was a labor-intensive plant and as you	
21	can see by the dra	awings we had no railroad spur, which meant	
22	double handling.		
23	Q	By that you mean they had to truck material	•
24	to another railroa		
05	A	To our railroad spur, yes.	٠.

- 1		specific direct .	45
2	Q	On the Pacific Coast or on the East	
3	Coast?		
4	A	The Pacific Coast.	
5	Q	Why did you recommend the shutdown o	f tha
6	facility?		
7	A	Inefficiency, labor-intensive, low	
8	volume.		
9	Q	Other than the labor-intensive aspec	t
10	of the paint pro	duction facility were there any other	
11	reasons that can	used you to recommend that it be shut do	own?
12	A	We had a 13-week strike and we found	that
13	we could produce	e enough paint to satisfy the needs by	
14	working overtime	e at a lower cost in the Los Angeles pla	ant (
15	which was modern	and efficient.	
16	Q	When did that strike occur?	
17	A	Shortly before we shut it down.	
18	Q	Do you recall when it was that produc	ition
19	stopped in San I	rancisco?	
20	A	No, I can't give you the exact date.	
21	Q	The disposition of the property from	NL
22	to Synanon occur	ered in the latter part of February 1971	L. If
23	I give you that	date does that help you remember when	·
24	production stopp	ed?	1.0
25	A	Yes. I would say it had been shut down	/n

perhaps a year before then.

Q At the time you made the decision to shut down the plant was there some limitation on NL's future use of the property?

A Yes.

Q What was that, to your recollection?

A I don't recall. We had three or four years to go. We had been given a 50-year -- and again I didn't see the figures but my understanding was we had been given a 50-year grace period to operate when it was zoned for residential. That expired in 1973 or 1974, something of that nature. I don't recall. There might have been a possibility of renewing it.

Q Was that limitation a factor in your decision also?

A I had considered that but the strike and the high cost to produce at the plant was the primary concern. The other was minor, just background.

Q Were there any considerations having to do with possible air or waterpollution that came into play in deciding to close down the plant?

A No.

Q To your recollection had the plant ever been cited in any way with respect to air pollution?

d of

	1
	2
	3
	4
	5
	6
	7
	8
	9
	10
	11
	12
	13
	14
	15
1	16
1	1 ,7
	18
Ì	19
7	20
	2 1
2	22
2	23
۰	

25

Q	At the time the property was dispose
to Synanon was	there any consideration given to the
possibility th	nat there might be lead residues on the
property at so	ome place, either in the buildings or the
soil or somewh	nere else?

A It was very clean.

Q Were there any tests of any kind made on the buildings or the soils to determine whether there were any such residues?

A I was not aware of any.

Q What about zinc? Was zince considered in any way to be a hazardous substance at that time?

A No. There were no restrictions on zinc that I am aware of.

Q Are you familiar with the chimney or what is sometimes referred to as the incinerator on the east side of the property?

A No, sir, I am not.

Q Let me just show you on Exhibit 1 that facility I am referring to which is called a brick chimney, 48 feet high. Do you remember that?

A No, I don't.

Q At the time the property was turned over to Synanon were there any products of the combustion used in the varnish manufacturing process that were considered

60

I am not aware of it.

Specht- direct

Have you ever heard of something called

Did any of the Synanon people ever ask any questions about the substance that had been used in the

Did they ask how long or how intensively the property had been used for that purpose?

When it was turned over to Synanon did you know of anything at all about the property that might limit its use for the purposes that Synanon described to

No, I did not. Their primary concern as they expressed it to me was to get the office building for apartments and whatnot in which people worked during the

Was there any demolition at all carried out by NL before the property was turned over to Synanon?

I can't answer that. I am not familiar. There was perhaps some done in connection with removing

25

			1
		Specht- direct 68	
.		MR. BRONNER: All right.	
		MR. HOFFMAN: Mark this P-3.	
		(Document marked Exhibit P-3 for identifi-	
	cation.)		3
	Q	Mr. Specht, I have handed you two document	ts
	the top one of wh	ich is dated both are marked together	
	as P-3 and the to	o one is dated November 7, 1968 and it	
	appears to be a co	opy of a letter that you wrote to Mr.	
	Mesick.		
н	•	· · · · · · · · · · · · · · · · · · ·	i

Yes.

Do you recognize that as a copy of your signature at the bottom of the page?

Yes, I do.

Q Is that a copy of a letter that you wrote to Mr. Mesick about that date, November 7, 1968?

I believe that it is.

The second document attached which I haven't asked you to read word for word because it is lengthy and has very small print, is entitled "Notice of " Future Expiration of Period of Permitted Continuance of Non-Conforming Status", and it is dated October 29, 1968 on the letterhead or stationery of the City Planning Department of the City of San Francisco.

Is that a copy of the notice from the Department of

22.

City Planning	that you	referred	to in	your	letter	to	Mr
Mesick?			·		· · ·		

A It appears to be.

Q Is that the notice to which you referred earlier which had to do with a limitation on the period of time during which NL could continue to operate its manufacturing facilities on the property?

A Yes.

MR. HOFFMAN: Mark that P-4.

(Document marked Exhibit P-4 for identification.)

MR. HOFFMAN: By the way, can we stipulate to the use of copies at this deposition without thereby making any stipulation about the trial?

I hadn't asked that.

MR. BRONNER: Certainly. We have conspicuously avoided challenging the authenticity of the documents also.

MR. HOFFMAN: Well, that's right. Most of these were produced as copies by NL.

MR. BRONNER: Yes.

MR. HOFFMAN: I assume it is for that reason that that question is not raised.

MR. BRONNER: Yes.

FOXCROFT ASSOCIATES, a California General

Partnership; RANDALL F. BAUKNEY; STEPHEN P. BEREZIN; and JOSEPH SKIFFER, JR., as individuals,

Cross-Complainants,

-against-

THE SYNANON CHURCH; NL INDUSTRIES, INC., a corporation; and DOES I through C, inclusive,

Cross-Defendants.

STUART M. KAPLAN, Receiver for 2222 Ltd., a California Limited Partnership,

Intervenor.

DEPOSITION of THOMAS P. MESICK, taken
before Marlyn Rudolph, C.S.R., Notary Public
of the State of New York, held at the offices
of NL Industries, 1230 Avenue of the Americas,
New York, New York, on June 5, 1985, at 10:45 a.m.,
pursuant to Notice and Agreement.

BORAK REPORTING SERVICE, P. C.
CERTIFIED SHORTHAND REPORTERS
293 MADISON AVENUE
NEW YORK, N.Y. 10017

EXHIBIT

(212) 689-8080

NIGHT PHONES: (516) 487-6474 (212) 533-1464 (212) 532-1040

- 2 to the Synanon Foundation; is that correct?
- 3 A Yes, sir.

- 4 Q Between the time that you received Exhibit 1
- 5 from Mr. Specht in 1968 and the later time that the donation
- 6 was made to Synanon, do you recall yourself having any
- 7 involvement with this particular property?
- A I believe that Kenny Specht consulted some
- 9 real estate brokers to get an idea of the appraisal. He
- was contemplating suggesting to the board of directors
- 11 that it be sold.
- 12 Q Did you yourself have any part in the decision
- to terminate the use of the facility? I am making a
- 14 distinction between terminating the use on the one hand
- 15 and deciding what to do with the property on the other
- 16 hand.
- My question is whether you had anything to
- 18 do with the decision to terminate the use of the property.
- A No, sir.
- 20 Q How did NL make contact initially with the
- 21 Synanon Foundation?
- A In talking with Mr. Specht from time to time
- as to, one, selling the building, and as to, two, donating
- it to a charity, the feeling was that it might be better
- all around, A, for the company to donate it and, B, at

Mesick 14

the same time to have a charitable institution use it

- for their purposes.
- My recollection is that Kenny Specht thought
- of Good Will, that is the name that comes to my mind.
- 6 I don't know much about that.
- I believe I was the one who said I read about
- Synanon on the West Coast and I know of a case of a young
- man who is involved there, why don't we or why don't you,
- 10 Kenny, talk to a man named Dederich who was the head of
- it at the time.
- I believe that was the genesis of how Synanon
- got into the picture.
- Q Did you make contact with Mr. Dederich?
- A No, I did not. From that point on Kenny
- Specht did whatever was done with regard to talking to
- 17 the Synanon people.
- 18 Q You said that it was considered better to
- donate the property as opposed to selling it. Was it
- considered that it would be more advantageous financially
- to the company?
- A Of course.
- Q Why was that, sir?
- A Because we had a tax deduction for the donation
- of the property.

3 consideration because it was the better way to handle

15.

- 4 it all around plus the feeling that we should give it
- 5 to a charitable institution.
- 6 Q I take it, then, that the value of the poten-
- 7 tial tax deduction was judged to exceed what could be
- 8 realized in the event of a sale of the property?
- 9 A That is true.
- Q Getting back to the nonconforming use designa-
- tion, did NL ever challenge that in any way?
- A No, sir.
- Q Was that matter ever taken up, to your knowledge
- 14 with the City and County of San Francisco?
- 15 A No, sir.
- 16 O To your understanding, did that designation
- 17 have an adverse effect on the market value or potential
- 18 sale value of the property?
- A My opinion is that it did, yes.
- Q In what way?
- 21 A Whatever the zoning was, the company could
- only use it for ten years, I believe, and --
- Q Exhibit 1 indicates a date of, I think,
- 24 May 2, 1980?
- A Right. We were reconciled to the fact that

- 2 representative on that occasion of whether NL's former
- 3 uses of the property as a manufacturing facility would
- 4 limit Synanon's future use of the property in any way?
- 5 A No, sir.
- 7 notice whether there were any materials in drums or other
- 8 containers stored around the premises in any place?
- 9 A No, sir, I did not. As I say, it looked
- 10 quite clean to me. They were ready to move in. I think
- they started moving in right away.
- 12 Q Did you go through that part of the premises
- that had actually been the site where paint was manufacture
- 14 by NL?
- 15 A I was just on the general premises. I could
- 16 not identify any particular site.
- 17 Q Do you know whether NL made any effort to
- 18 determine at the time of this transaction whether the
- 19 premises had been contaminated in any way as a result
- 20 of the previous paint manufacture?
- A It was not in anybody's thoughts.
- 22 Q There was no discussion of that subject within
- 23 NL itself of possible contamination?
- A There was certainly no discussion by anybody
- that I knew and certainly nothing between the lawyers,

- 2 Mr. Garrett and Sharon Green, Bob Burns and myself.
- 3 No discussion, no need for it.
- 4 Q To your understanding, was lead considered
- 5 a material with hazardous properties as of that time,
- 6 1971?
- 7 A There was no concept that lead was a hazardous
- 8 property with respect to this plant. It was just not
- 9 in anybody's thoughts any more than gold was in anybody's
- 10 thoughts which might be something under the earth in
- 11 San Francisco.
- 12 Q As cf that time, February of 1971, had NL
- 13 ever disposed of, in any way, by gift or sale or any way
- 14 any other properties where it had formerly manufactured
- 15 paint?
- 16 A I don't recall, but it was company policy
- 17 to make donations, mostly in money, sometimes in paint
- 18 products. Real estate I have no immediate recollection
- 19 of. If there were donations of real estate, they were
- 20 fairly routine and had been approved by the executive
- 21 committee. That was a rule, real estate should receive
- 22 executive committee consideration.
- 23 Q Apart from donations, as of that time, do
- 24 you know of any former paint manufacturing facilities
- 25 that NL had disposed of in any way?

- 1
- 2 . Q Mr. Mesick, did any Synanon people ever
- 3 come to visit you back in New York City after this
- 4 transaction?
- 5 A Yes, I believe there was a man named Ron Cook.
- 6 Q What was his function with Synanon at that
- 7 time?
- 8 A He was the treasurer --
- 9 Q I think comptroller?
- 10 A Yes.
- 11 Q Did you ever go back out to San Francisco
- 12 to see any of the operations of Synanon on the property?
- A No, sir.
- 14 Q I show you what has been marked Exhibit 10,
- 15 which appears to be a copy of the grant deed by which
- 16 the property was transferred to Synanon on February 26,
- 17 1971.
- 18 (Witness perusing document)
- 19 Q Did you sign that grant deed on behalf of NL?
- A Yes, sir, as secretary.
- Q Were you authorized by the board of directors
- to do that?
- A Yes, sir.
- Q Attached to that document, the last two or
- 25 three pages, there is another document that is not signed

- 2 by yourself but Mr. Specht testified was signed by him.
- 3 Do you recognize those three pages, that is, GNS000234
- 4 through 236, as an agreement entered into at the time
- the property was conveyed to Synanon by NL Industries?
- A I recognize it as an agreement by which Synanon
- 7 accepted the property and the deed.
- 8 Q Was the deed signed at Mr. Burns' office on
- 9 the 26th of February?
- A Yes, sir.
- Q Was this agreement that we have been referring
- 12 to also signed by Mr. Specht and Mr. Garrett at the same
- occasion?
- 14 A I would have no doubt about it.
- 15 Q Subsequent to this donation, did NL ever make
- any other donations of real estate to Synanon?
- 17 A I don't think so. I don't recall.
- Q Do you recall at a later time there was some
- correspondence concerning possible donation of a property
- in Richmond, California to Synanon?
- A Yes, there was some colloquy about that, but
- I don't think it ever eventually happened.
- Q What was the nature of that property, do you
- 24 recall?
- A Richmond, California. That was a small plan

- 2 Mr. King states, "A donation, assuming a value of \$750,000,
- 3 will net after taxes to NL \$3750,000 in tax reductions."
- 4 Was it true, according to your understanding
- 5 at that time, that if the IRS valuation of \$750,000 were
- 6 accepted, that the donation would be worth \$375,000 to
- 7 NL in tax reductions?
- 8 A I would have no reason to doubt that. I had
- 9 not gone into the figures. That was not my province,
- 10 but I would have no reason to doubt what was the
- 11 recommendation as expressed here.
- 12 Q Was that statement based on the assumption
- 13 that NL was then in the 50 percent corporate income tax
- 14 bracket?
- 15 A Always was, yes.
- 16 Q Following that statement, Mr. King continues
- 17 and a series of figures are set forth and he states as
- 18 follows: "On the other hand, a sale at a price of
- 19 \$320,000 (the highest of Harrigan Weidenmuller appraisal
- values) would net after taxes to NL \$142,000 as follows,"
- 21 and then those various figures are set forth.
- To your understanding, was that statement
- 23 also correct, namely, that a sale at the highest appraised
- 24 value would net only \$142,000 in cash to NL?
- 25 A I would have no reason to doubt Harold's

- 2 computation.
- 3 Q Would the same be true, that is, to your
- 4 understanding, was it correct that donating the property
- 5 as opposed to selling it was worth approximately \$233,000
- 6 more to NL, that is, the difference between \$375,000 and
- 7 \$142,000?
- A I think that is what the figures show, yes,
- 9 sir. I would like to suggest to you that what was
- 10 happening here in all of these supporting papers was the
- 11 following, which I am sure you will readily understand.
- I had gone to the executive committee, who
- 13 were a group of expert businessmen sitting around the
- 14 table, and presented the idea originally that they would
- 15 have a tax deduction of \$1,350,000 donating this property.
- 16 As a lawyer, you will appreciate that when you settle
- 17 a case you have to set your client on the idea of taking
- 18 less money than he anticipated.
- This is the purpose of my memorandum, which
- 20 is addressed to the members of the executive committee
- 21 prior to the executive committee meeting, and with this,
- 22 I hoped they would read and when we sat around the table,
- 23 they would understand why it was that three years or so
- 24 before the picture looked so very bright and three years
- 25 later some of the luster has worn off. This was the

- 2 support of it (indicating).
- Actually, it all emanated from IRS. We could
- 4 have fought then but, again, compromise seemed to be the
- 5 thing that was in order.
- 6 This is why these papers were submitted in
- 7 advance and I do believe -- yes, it was approved by the
- 8 executive committee.
- Q Even so, NL got considerably more out of the
- 10 property by donating it than it would by selling it?
- 11 A There was never any question about that. That
- 12 is what we are in business for, if we could get an advantage
- 13 to take it and attempt to to charitable work. These
- 14 people were real responsive to what they had gotten and
- 15 I think for the number of years they were there all records
- 16 I heard and read in the newspaper as very substantial,
- 17 good effects on their members.
- 18 Q You are talking about Synanon now?
- A Yes, sir.
- Q Let me show you, if I may, what has been
- 21 marked as Exhibit 14.
- (Witness perusing document)
- Q Is Exhibit 14 a minute of the executive
- committee's action on May 29, 1974 that you sent to
- 25 Mr. McLean?

```
IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA
 1
       IN AND FOR THE CITY AND COUNTY OF SAN FRANCISCO
 2
                               000
 3
     SYNANON CHURCH,
                        Plaintiff,
 4
                                         NO. 804-196
          vs.
 5
     FOXCROFT ASSOCIATES, a
     partnership; RANDALL F.
 6
     BAUKNEY; STEPHEN P. BEREZIN;
     JOSEPH SKIFFER; and Does 1
7
     through 10, inclusive
                        Defendants.
 8
9
     FOXCROFT ASSOCIATES, a
     partnership; RANDALL F.
     BAUKNEY; STEPHEN P. BEREZIN;
10
     JOSEPH SKIFFER, Jr., as individual
                      Cross-Complainants,
11
          vs.
12
     THE SYNANON CHURCH; NL
     INDUSTRIES, INC., a
13
     corporation; and Does I
     through C, inclusive
14
                       Cross-Defendants.
15
     STUART M. KAPLAN, Receiver
     for 2222 Ltd., A California
16
     limited partnership.
17
18
19
                DEPOSITION OF SHARON GREEN
                    December 19, 1984
2 Ø
21
22
     REPORTED BY: JAY W. HARBIDGE, CSR 4090
23
24
              SAN FRANCISCO REPORTING SERVICE
               625 THIRD STREET, THIRD FLOOR
25
             SAN FRANCISCO, CALIFORNIA 94107
                       (415) 777-2111
26
                          EXHIBIT 11
```

2 Ø

A. I recall most of these buildings as being fairly dark, and for that reason I'm inclined to say that I do not believe it was paint unless it was black or dark brown or something like that.

There were paint splatters all around every place, I mean, places where paint had been dripped in a lot of different areas of the property, but I don't have a specific recollection where they were.

- Q. As far as dust, dirt and other types of debris are concerned, were the buildings in a reasonably clean condition when Synanon took possession of them?
- A. For a manufacturing plant, it was reasonably clean.
- Q. Before the conveyance was effectuated, did you have any discussions with anyone from NL Industries as to the zoning status of the property?
- A. I don't recall any specific discussions.

 I do recall what the zoning status of the property
 was and what our agreement with respect to this -well, no, I'm going to rephrase that. What I do
 recall is what our agreement was with respect to
 the zoning. Beyond that, I have no recollection of
 how I learned it or when.

- Q. Is that the sum and substance of your dealings with Foxcroft Associates?
 - A. Yes.
- Q. To your knowledge, before Synanon acquired the property, was there any discussion between Synanon and NL Industries, Inc., as to any possible residues in the soil from paint manufacturing? I'm talking about lead, zinc, chromium, metals of that sort.
 - A. Was there any discussion?
 - Q. Yes.
 - A. No.
- Q. Was there any discussion between Synanon and NL Industries, Inc., before the property was acquired as to any possible residues of lead and zinc and other metals from paint manufacturing in the buildings, that is, the walls, floors, foundations?
 - A. No.
- Q. Did Synanon engage an engineer or any technical consultants of that nature to review the property or the building before it decided to accept the donation?
- A. I don't have any recollection that we did, and we were so delighted about this donation that I would be astonished that we had done such without

my knowledge.

Q. Other than the zoning aspect that we already discussed, are you aware of any discussion between Synanon and NL Industries before the property was transferred as to whether any aspect of the former paint manufacturing use would limit the future use of the property in any way?

A. Would you read that question back, please.

(Record read.)

THE WITNESS: No.

MR. HOFFMAN: Q. Did you at some point become aware that the State of California raised an issue as to contamination of this property by lead, zinc and other metal residues in the soil?

A. No.

Q. Did you observe a chimney-type structure on the property before Synanon acquired it?

A. There was a chimney there. Whether I saw it before we acquired it or on the day we moved in, I don't recall. I mean, it was very obvious. All you had to do was go behind those buildings and you could see it.

- Q. Did you ever go inside the chimney?
- A. No.
 - Q. Before Synanon acquired the property, were there any discussions that you know of between

- Q. Referring to the buried tanks under the sidewalk, do you remember in what connection you first learned about those tanks?
- A. I really don't know. We had a lot of people who were doing various things, preparing this property for Synanon's uses. After we moved in, more work was done. We had an architect who was assisting. He also lived on the premises. He did some remodeling of the particular area where he lived, which is over here, number 20, the paint house, and we were trying to get permission to put the sign up. During all of this I was peripheral. I was involved because any permits or applications to the city had to have my approval before they could be submitted.

We also had two or three other architects who were Synanon residents who came to me from time to time about various things that they wanted to do or wanted to propose for this property, and because they had to get -- they had to put the permit --

3.

2.2

MOTECO DEPARTMENT OFFIT

41 6 /7 77 7 7 1

1 involve my office in the permit process, from time to time I got information from various people. I 2 3 cannot really recall at all who told me about the 4 underground tanks or whether these are the specific 5 ones I was first told about. I knew that there 6 were some tanks underground in that property and I 7 knew that there were other tanks because I had seen them. But beyond that, I can't distinguish at this 8 9 point in time. 10 Did you ever learn whether or not there 11 was anything in these tanks under the sidewalk? 12 No, I can't tell whether I did or not. Α. 13 0. Were you ever on the board of directors of Synanon? 14

A. No.

15

16

17

18

19

2 Ø

21

22

23

24

25

26

MR. HOFFMAN: Would you mark that as a next in order, please.

(Whereupon, Intervenor's Exhibit A was marked for identification.)

MR. HOFFMAN: Q. Now, is Exhibit A a copy of a resolution that the Synanon board of directors adopted on February 22, 1971?

- A. Yes.
- Q. Did you prepare the form of this resolution?
 - A. The first two pages?

•	
1	IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA
2	IN AND FOR THE CITY AND COUNTY OF SAN FRANCISCO
3	
	SYNANON CHURCH,
4	Plaintiff,
	vs. No. 804-196
5	
•	FOXCROFT ASSOCIATES, a
6	partnership; RANDALL F.
	BAUKNEY; STEPHEN P. BEREZIN;
7	JOSEPH SKIFFER; and Does 1
-	through 10, inclusive
. 8	
0	Defendants.
_	DOVGDORD AGGORDEN
9	FOXCROFT ASSOCIATES, a
	partnership; RANDALL F.
10	BAUKNEY; STEPHEN P. BEREZIN;
	JOSEPH SKIFFER, Jr., as individual
11	Cross-Complainants,
	vs.
12	
	THE SYNANON CHURCH; NL
13	INDUSTRIES, INC., a
	corporation; and Does I
14	
T 4	through C, inclusive
	Cross-Defendants.
15	
	STUART M. KAPLAN, Receiver
16	for 2222 Ltd., A California
	limited partnership.
17	//
.*	
18	
19	DEPOSITION OF DAN L. GARRETT, JR.
	or bin ii. Garrell, or.
2 Ø	December 19, 1984
	December 19, 1984
21	
41	
22	
22	REPORTED BY: JAY W. HARBIDGE, CSR 4090
23	
24	SAN FRANCISCO REPORTING SERVICE
	625 THIRD STREET, THIRD FLOOR
25	SAN FRANCISCO, CALIFORNIA 94107
	(415) 777-2111
1	カルコート・ファースト ファイス・コー リサルコル・アノノデス北上 上でもらった。 (4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1

Q. Can you recall the general condition of that part of the premises, buildings 805 and 806?

I'll be a little bit more specific in a minute, but.

I just wanted to find out whether you have a recollection now that the visit --

A. Well, I guess the answer to that would be yes, I can recall the general condition.

Q. What was their general condition so far as cleanliness or evidences that paint had been manufactured at that location?

A. Well, the premises were pretty well maintained. They seemed to be as clean as you would expect an operating paint factory to be.

There were lots of evidences of paint and varnish manufacture. The floors were spattered. There were lots of places where, you know, paint was in evidence, and the floors showed, you know, the traces of heavy machinery working on them.

of paint stored there when I -- early in my observations, although when we got in, we cleaned all that up. But I would say it was in pretty good condition for a paint factory.

- Q. Were the walls spattered with paint also?
- A. Well, there were areas where paint was spattered, walls, floors, you know, just in a

general way.

- Q. Were there any solid residues, sludges or anything of that nature, of either paint, varnish, residual substances of that sort?
 - A. When you say "solid," do you mean dry?
- Q. Caked, dry material, exactly, heavier than what would amount to just a coating that had dried.
- A. Oh, I don't think I recall seeing anything like that. It was just stuff that had been spattered and dried.
- Q. But you don't recall messes, any significant messes of material of that nature?
 - A. You mean of a significant thickness?
 - Q. Yes.
 - A. No.
- Q. Is that true of all the buildings that you went through, that you didn't observe anything of that character?
- A. Well, in the laboratory where they spattered with paints and I guess came up with new combinations for paints or whatever it was they conducted there, there was a lot of paint in evidence that was spattered around. Over in the areas where --
 - Q. Now, the laboratory of which you just

2

3

4

5

6

7

8

9

26

spoke, is that the laboratory that you referred to earlier in building 801 or --

- No, that was in 801.
- Which floor was that, if you recall? Q.
- It was either the third or fourth floor, or second or third, maybe. I'm not quite sure. Maybe it was the -- no, I think it was the third. You know, it's been a long time ago.
 - 0. I understand.
- Α. Over where the manufacturing took place, there was a lot more paint spattered around there. You know, that's what you would expect.
- What about the buildings on the east side Q. of the property along the Rhode Island Street property; were there any signs of varnish and use of varnish and resins in those buildings?
- Well, sure. You know, it was a paint factory and there were areas in those buildings that appeared to be related to the filling of paint cans, the boxing of paints. There were big vats in the area, for instance, that's marked 808, 810, 811.
- Do you recall the building with the chimney that's designated 815 on this chart?
- I think the building with the chimney was either 813 or 814, wasn't it? Let's see. Well, maybe not. Okay

I don't know. None that I'm aware of.

In any case, nothing was ever said by NL to you about the possibility of any soil

25

2 Ø

- A. Not that I recall.
- Q. Did you ever have any discussions with anyone from NL Industries about the possibility that any of the buildings, the floors or the walls, concrete slabs, any portion of the buildings might be contaminated as a result of the prior manufacturing operations?
- A. Well, there was nothing to discuss. It was obvious on inspection that some sort of a paint business had been conducted there, but if that's what you mean by "contamination," I suppose the contamination in that respect was obvious. But I don't recall any discussions with anyone from NL Industries about that fact.
- Q. Were you yourself aware that paint and varnish manufacturing involved use of heavy metals such as lead, zinc, chromium, things of that nature?
- A. Well, I obviously knew that it contained lead, and I don't know what all the materials are that go into paint, but lead is the obvious one.
- Q. Well, was the subject of lead as a possible contaminant of the property discussed in any way in your knowledge with NL Industries before the donation was completed?

MR. WEILL: I'm unclear as to -- I

believe that you and I may have an understanding of the word contaminant, but I'm not sure from the witness' earlier answer whether he does. If it's being used as a synonym for being spattered as paint residue, then that's different than maybe what you are talking about by that question. I think you both should arrive at an understanding.

MR. HOFFMAN: Q. I'm happy to refer to residues of lead. Was there ever any discussion as to lead being --

- A. Lead poisoning, that sort of thing?
- Q. -- well, lead being a residue on the property, either in the soils or in the buildings, as a result of the prior manufacturing operations?
 - A. Not that I know of.

2 Ø

- Q. Would your answer be the same if I asked you about any other metal such as zinc, chromium, cadmium, copper, things of that nature?
- A. Yes, I suppose it would. It would be obvious that there was a paint laboratory being conducted there with all kinds of materials being used and I suppose analyzed and spattered with, but I don't recall any discussions about this producing contamination by lead of either the soil or the buildings.
 - Q. Do you know what the term PCB's refers to?

1 Ø

being sought, and I was told that lead contamination was an issue, and that's the first time I had ever heard of that being an issue.

- Q. Was it Mr. Weill who informed you of that?
- A. No, I think it was Phil Bourdette.
- Q. After Synanon acquired the property from NL Industries, were there various things that had to be removed from the property in order to make it usable for Synanon's purposes?
- A. Well, when you say "had to be removed," I guess the answer to that would be no, because we utilized it immediately and there were a number of ongoing operations to remove and dispose of scrap metal, piping, tanks, whatever it was, and I think that went on more or less during the time when we owned the property.

MR. HOFFMAN: Would you mark that as Exhibit 4, please.

(Whereupon, Intervenor's Exhibit 4 was marked for identification.)

MR. HOFFMAN: Q. Mr. Garrett, I've handed you Exhibit 4, which is a five-page document, the first page of which is headed "Corporation Grant Deed" which contains additional material. Could you look at the last page of this document where there's a signature block for Synanon

Foundation, Inc.

2 Ø

Is that a copy of your signature that appears above that line?

A. Yes.

MR. WEILL: For the record, that page
bears our document stamp number of GNS000236?

MR. HOFFMAN: That refers to a document
that NL Industries produced; is that correct, Mr.
Weill?

MR. WEILL: I think so, if I remember my initials. GSY is our documents and GNS is theirs.

MR. HOFFMAN: Q. Do you remember signing this document, Mr. Garrett?

MR. WEILL: Well, I'm going to object just simply because in reviewing this, I don't necessarily agree to the characterization of this as one document. But otherwise, I have no objection. But it appears that there's a page 1 and then there's two unmarked pages and then there's a page 2, which is a fourth page, so I'm not sure that this is one document.

THE WITNESS: Well, I would have to say that I don't really remember signing the document. I remember being more or less in charge of the negotiations and the completion of the donation, but that's my signature. As I sit here, I don't

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

2 Ø

21

22

23

24

25

26

remember sitting down and signing it, although I do recall looking at it and that I used the name Dan Garrett, vice president, rather than Dan L. Garrett, Jr., and I did that for a while.

MR. HOFFMAN: Q. Did you draft any documents, to your recollection, in connection with this transaction?

- I don't believe I did.
- Referring to the documents in front of 0. you, Exhibit 4, whether they be one or more than one, do you know who drafted those documents?
 - I don't know.
- Did anyone from Synanon draft any 0. documents in connection with the transaction, any attorneys, to your knowledge?
 - I don't know. Α.
- Do you know whether Synanon ever excavated or graded any portion of the property after acquiring it from National Lead?
 - I don't know.
- Do you remember what part, if any, of the property consisted of soils that were not covered by concrete or pavement or buildings of some nature at the time the property was acquired?
- I just -- I don't recall one way or the My impression at this point is that there

- A. I don't recall anything like that.
- Q. Was there anything at all unusual about the appearance of the surface of the soil in any respect?
 - A. No.

1 Ø

2 Ø

- Q. Never heard anything about that from anyone else at Synanon?
- A. No. The first time I heard anything about contamination of the soil was when Phil Bourdette told me that this lawsuit was in progress and that you were, I guess it was, seeking my deposition.

MR. HOFFMAN: Would you mark that as Exhibit 5, please.

(Whereupon, Intervenor's Exhibit 5 was marked for identification.)

MR. HOFFMAN: Q. Mr. Garrett, I've handed you several pages of a document, which is really a portion of a larger document that's been marked as -- or the pages have been marked as Exhibit 5 for your deposition. Let me represent to you, and I think Mr. Weill will confirm, that these are copies of pages 168 through 176 of an environmental impact report on this property that was prepared after Synanon conveyed the property to 2222 Limited.

What it is, is a list and description of what are called "Chemicals Found On The Project Site." The list was prepared by the consultants who prepared the environmental impact report. I don't want to take your time to ask you to go through these items individually. What I want to ask you is if you might review the list generally for just a moment and then I'll ask you a few questions, a few general questions about it.

1 Ø

MR. WEILL: This is from the final EIR?

MR. HOFFMAN: Final as far as I know, yes.

THE WITNESS: Okay.

MR. HOFFMAN: Q. First of all, do you know whether -- you see that in several cases there are references here to drums of materials of various sorts?

- A. Okay, 55-gallon, 50-gallon.
- Q. 50-gallon drums and so forth and so on.

 Do you know whether there was any material stored in drums that was left on the property at the time Synanon acquired it and remained there, you know, through the entire period of Synanon's ownership until the time that it was conveyed away?
 - A. Read that back again, I'm sorry.

 (Record read.)

THE WITNESS: Well, I don't know what the

5

6

7 8

11

10

12

13

14

15 16

17

18

19

20

21

22

23

24

25

26

circumstances were when Synanon conveyed the property away. You tell me that took place sometime in 1980?

> MR. HOFFMAN: Q. Correct.

I left there February 12th, 1980, so that was my last connection with Synanon. I don't believe I've set foot on Synanon property, except to pick up my stepdaughter on one or two occasions in Tomales Bay, and I went to the San Francisco warehouse, which was at Oyster Point, to pick up some of my household items and other belongings at one point. That was shortly after I left. other than that, I would have no knowledge of what went on at the San Francisco paint factory facility.

In answer to your question about were there things like this on the property, there were lots of things like this on the property, although I couldn't tell you what was in, you know, each container or tell you all of the variety of chemicals or whatever that were in these drums.

- Q . . I understand that.
- But I do know that when we took over the property, there was lots of this -- you know, there were these things there, and it looks like they remained there up until the end, if this study was done after your folks took over the property.

2 Ø

2.3

24.

- Q. Yes. This study was done later in 1980 after the property was conveyed by Synanon to 2222 Limited.
- A. Well, these look like the materials that were left on the property from the paint factory operation. I can't imagine what we would be doing with these things, unless it's something like the Black Flag home size spray or bathroom cleaning products or cleaning products in the wooden box, things of that nature. The other things I don't believe would have anything to do with our operation. I'm saying that in general terms without looking through the whole thing and examining each item. I guess that's understood, okay?
 - Q. Yes, it is understood.
 - A. All right.
- Q. Other than those small or miscellaneous items, there are no items that you recognize as being ones that Synanon used during the time it was on the property?
- A. Well, it's hard to answer that. In general terms, I can give you some examples. Like hydroacedic acid, I don't know what we would be doing with anything like that. Two five-gallon containers of soft brown solid, we might have that

for cooking purposes. Then the one home size can 1 of Black Flag pesticide, I assume we probably used 2 pesticides from time to time because, like any 3 other living operation, you have to get rid of bugs 4 and that sort of thing. Bathroom cleaning products, 5 we certainly would have had those. The paint 6 materials look like some of those we could have 7 used because we did a lot of painting and, in fact, 8 painted the entire exterior of the building and I 9 believe sealed it at one point because of leaks 1 Ø that developed in the driving winter rain. 11

12

13

14

15

16

17

18

19

2 Ø

21

22.

23

2.4

25

26

So these paint materials and that sort of thing may well have been materials that we used from time to time. We did a lot of renovation inside the buildings, and of course we painted extensively to redecorate and refurbish and so on, so --

- Q. Was there also sealing of floors, walls, things of that nature inside?
- A. Well, we put in floors. Generally, when we put in a floor covering, we put in some sort of a -- I think it was called Quiet Zone stuff, so I just don't know enough about these terms to know, but it looks to me like this list of materials may be a combination of stuff that was left there and material that we had for purposes of reconstruction

1 of painting and sealing and so on.

2 Ø

MR. WEILL: Before going further, I just noticed something -- so the record is not confused -- on page 176.

MR. HOFFMAN: Why don't we take off page 176. It really wasn't intended to be part of the examination. It's part of the same documents, but it wasn't part of the materials that I intended to ask Mr. Garrett about.

(Discussion off the record.)

MR. WEILL: It's been stipulated between Mr. Hoffman and myself on behalf of the parties present here that in Mr. Garrett's testimony referring to Intervenor's Exhibit 5, that he was referring to the materials listed on pages 168 through 175, that he was not referring to any of the materials listed on page 176 and that we have also stipulated that page 176 is to be removed from Intervenor's Exhibit 5.

MR. HOFFMAN: That's correct

(Brief recess.)

MR. HOFFMAN: Q. Mr. Garrett, did you ever meet a man named Richard Marklin, M-a-r-k-l-i-n, connected with NL Industries?

A. I don't know. The name doesn't ring a bell, although that doesn't mean I didn't meet him.

HATE DEPARTMENT OF CITY PLANNING TO WHE SHE WHEN CHECKE CHECKE AND THE TRANSPORT OF CITY PLANNING TO WHEN SHE WE WERE CHECKED AND THE WAR WHEN THE WHEN THE

DRAFT
ENVIRONMENTAL IMPACT REPORT
EE 80.110

2222 23RD STREET

PUBLICATION DATE: MARCH 27, 1981

PUBLIC COMMENT PERIOD: MARCH 30, 1981

THROUGH MAY 14, 1981

PUBLIC MEARING DATE: APRIL 30, 1981

DRAFT

ENVIRONMENTAL IMPACT REPORT

2222 23RD STREET

EE 80.110

Publication Date: March 27, 1981

Public Comment Period: March 30, 1981 Through May 14, 1981

Public Hearing Date: April 30, 1981

Written comments should be sent to the Office of Environmental Review
45 Hyde Street
San Francisco, California 94102

TABLE OF CONTENTS

			Page
List	of E	xhibits	iv
List	of I	ables	v
ı.	SUM	IMARY	1
II.	PRO	JECT DESCRIPTION	4
	A.	Sponsor and Objectives	4
	B.	Location	4
	c.	Description	4
	D.	Required Project Approvals	16
III.	ENV	VIRONMENTAL SETTING	18
	A.	Land Use and Zoning	18
	B.	History of the Site	25
	c.	Transportation	28
	D.	Noise	33
	E.	Topography and Geology	37
	F.	Plants	38
IV.	ENV	IRONMENTAL IMPACT OF THE PROPOSED PROJECT	39
	A.	Land Use and Zoning	39
	В.	Historic Structures	40
	c.	Comprehensive Plan and Other City Policies	40
•	D.	Socioeconomics	43
	E.	Transportation	47
	F.	Noise	51
	G.	Air Quality	54
	н.	Toxic Substances	60
	I.	Energy	71
	J.	Community Services	77
	ĸ.	Topography and Earthquake Effects	81

TABLE OF CONTENTS (Cont'd)

		,	Page	
ıv.	ENV	IRONMENTAL IMPACT OF THE PROPOSED PROJECT		
14.	(Cont'd)			
	•	Plants	82	
	_	Short Term Use of Man's Environment vs. the	82	
		Maintenance of Long Term Productivity		
• •	N.	Growth Inducing Effects	82	
	٥.		84	
v.	MIT	rigation measures	86	
	Α.	Urban Design	86	
	в.	Historic Structures	86	
	c.	Housing Cost	87	
	D.	Noise	87	
	E.	Toxic Substances	88	
	F.	Energy	93	
	G.	Structural Safety	95	
VI.	ADV	VERSE ENVIRONMENTAL EFFECTS WHICH CANNOT	98	
	BE	AVOIDED IF PROPOSAL IS IMPLEMENTED		
	A.	Land Use	9 8	
	в.	Noise	9 8	
	· C.	Energy	98	
	D.	Air Quality	9 8	
	F.	Toxic Substances	9 8	
/II.	ALTERANTIVES		9 9	
	A.	Low Density Alternative	99	
	в.	High Density Alternative	102	
	c.	Mixed Housing Alternative	104	
	n	No Project	108	

TABLE OF CONTENTS (Cont'd)

			Page
VIII.		AUTHORS AND CONSULTANTS: ORGANIZATIONS PERSONS CONTACTED	109
IX.	DIS'	TRIBUTION LIST	113
Appen	dice	<u>s</u>	117
	A.	Proposed Project Costs	119
	в.	Traffic	121
	c.	Chemical Data	128

LIST OF EXHIBITS AND TABLES

		Page
Exhibits		
1.	Regional Location	2
2.	Site Location	5
3.	Existing Site	6
4.	Rhode Island St. and Kansas St. Elevations	8
5.		9
6.	24th St. Elevation	10
7.	Kansas Street Grade Plan	11
8.	First Floor Plan	12
9.	Second Floor Plan	13
10.	Third Floor Plan	14
11.	Fourth Floor Plan	15
12.	Zoning	19
13.	Photograph of Site and Freeway and Photo-	20
	graph from Site of Kansas St. and 23rd St.	
14.	Existing Land Use	21
15.	Photograph of Buildings Facing Site on Rhode	22
	Island St. and Photograph of Buildings	
	Facing Site on 23rd St.	
16.	Wisconsin Street Site	23
17.	Photograph of Chimney and Garage to be	26
	Retained	
18.	Street Map Showing Connections To and From	29
	James Lick Freeway	
19.	Transit Service	31
	Noise Measurement Locations	34
21.	Relationship of Zinc and Lead Concentrations	66
	to Depth in Soil	
22.	Low Density Alternative	100
23.	High Density Alternative	103

LIST OF EXHIBITS AND TABLES (Cont'd)

		Page
Tables		
1.	Unit Types and Prices	16
2.	Street Characteristics	28
3.	Ambient Noise Measurements	35
4.	Allowable Housing Density by Zoning Districts	40
5.	Estimated Municipal Tax Revenues in 1980	44
	Dollars, Calculated at 1980-1981 Tax Rates	
6.	Comparative Sale and Resale Prices of Potrero	45
	Hill Housing	
7.	Average Weekday Vehicular Trip Generation	47
8.	San Francisco Quarterly Air Lead Concentrations	56
	in Milligrams Per Cubic Meter, MG/M ³	56
9.	Energy Intensiveness of Typical Building	71
	Materials	
10.	Crime Incidence in Project Area	78
11.	San Francisco Heat Loss Through Single- and	93
	Double-Glazed Windows	
12.	Maximum HUD, Section 8, Fair Market Rents	104
13.	Alternative C, Maximum Possible Sales Income	106
14.	Maximum Possible Section 8 Income Per Year	106

I. SUMMARY

A Planned Unit Development (PUD), consisting of 132 condominiums, 8500 square feet of neighborhood commercial space, and 161 parking spaces, is proposed for the former paint manufacturing site including the entire block bordered by Kansas, 23rd, Rhode Island and 24th Sts. The project would include rezoning from RH-2 (House, Two-Family) to RM-2 (Mixed Residential, Moderate Density), to be requested by project sponsor. A building at Kansas and 24th Sts. would be remodeled into housing units, and a chimney on Rhode Island, listed in the Department of City Planning Architectural Survey, would be preserved. The site is on the east edge of the James Lick Freeway and is subject to Freeway noise.

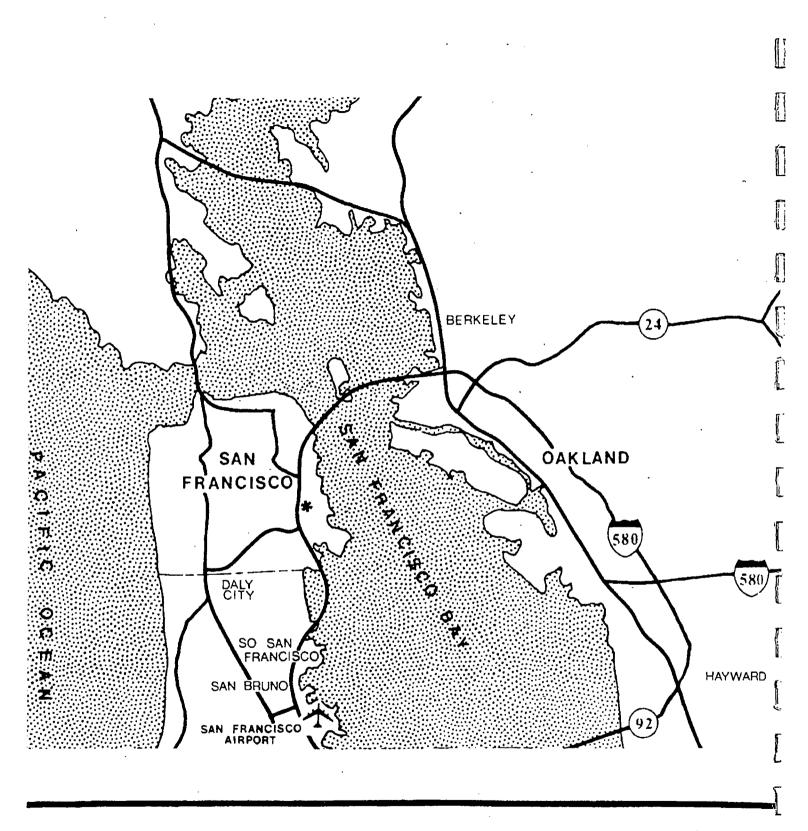
The project design would generally maintain the present site development configuration with a perimeter of structures surrounding central, common open space. New construction would comply with the 40 ft. height limit.

The project would comply with Master Plan policies encouraging the use of underused land and development of a variety of housing unit types by provision of 13 studios, 29 one-bedroom, 81 two-bedroom and 9 three-bedroom units on an unused site.

The project would generate about 740 vehicle trips per day. The four bounding streets would remain at Level of Service A with this additional traffic; and freedom of pedestrian movement would not be affected. Off-street parking within the project and now unused street parking space would accommodate project-generated parking needs.

The relatively high noise levels on the west side of the project would be mitigated by use of sound attenuating construction materials to bring interior noise levels to a non intrusive level.

Toxic materials in containers on the site have been removed. Demolition and renovation will be conducted so as to prevent dispersion of toxic dust in the neighborhood. The incinerator will be sealed to prevent access to toxic materials inside. Heavy metal paint ingredients spilled on the site presently contaminate the soil. After removal of the concrete slabs which cover most of



Regional Location

0 5 miles

* Project

the site, a soil analysis program and appropriate mitigation measures will be developed in consultation with the Hazardous Materials Section of the State Department of Health Services. Electrical equipment containing PCBs and PCB spills will be removed prior to demolition.

Some neighborhood groups have expressed concerns over the potential effect of the proposed project on housing price inflation in the Potrero Hill area.

Four alternatives to the proposed project have been considered, including the No Project Alternative. A Low Density Alternative, complying with present RH-2 zoning, could include 53 units which would be more expensive than the project because of the small number of units and absence of remodeled units. A High Density Alternative, requiring reclassification to RM-3 rather than RM-2, could include 200 units. This Alternative would be out of scale with surrounding development. A Mixed Housing Alternative, evenly divided between market rate, moderate income condominiums and Section 8 subsidized low income rental units, was also considered and found to not be economically feasible.

II. PROJECT DESCRIPTION

A. Sponsor and Objectives

The project sponsor is "2222 23rd Street," a San Francisco partnership, and the project architect is Architects
Associated. The objectives of the sponsor are to provide housing, to provide a return on the investors' money, and to produce a project sensitive to the site-specific issues discussed in the DEIR.

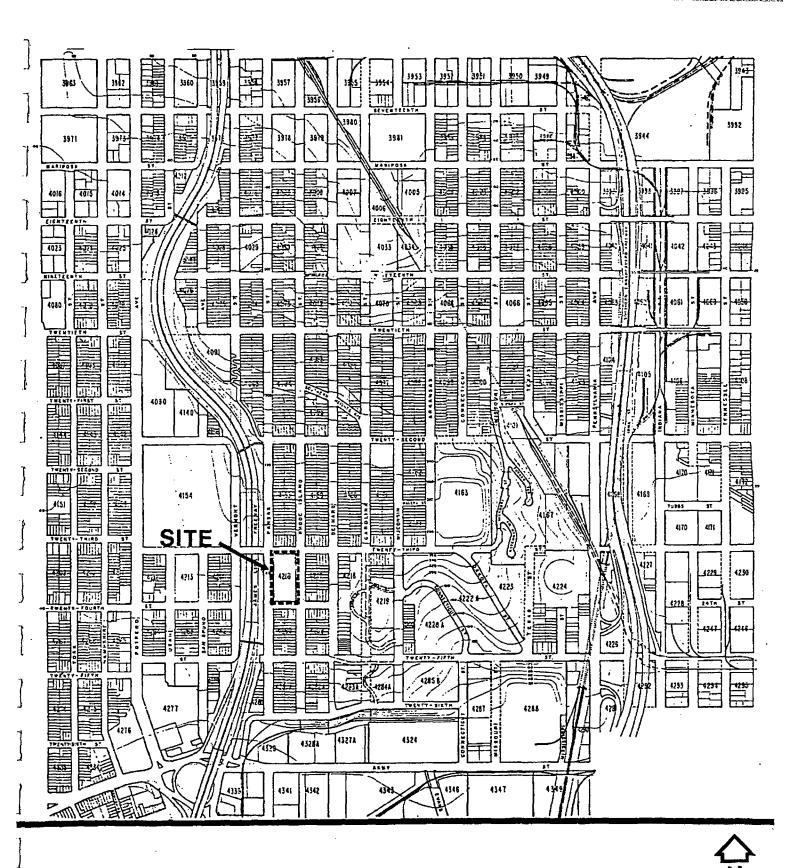
B. Location

The project site is an 80,000 square foot, 1-block area at the western base of Potrero Hill in southeastern San Francisco (see Exhibit 2, page 5). The site includes the entire Assessor's Block 4216, Lot 1, bounded on the east by Kansas Street, on the west by Rhode Island Street, on the south by 24th Street, and on the north by 23rd Street (see Exhibit 3, page 6).

C. Description

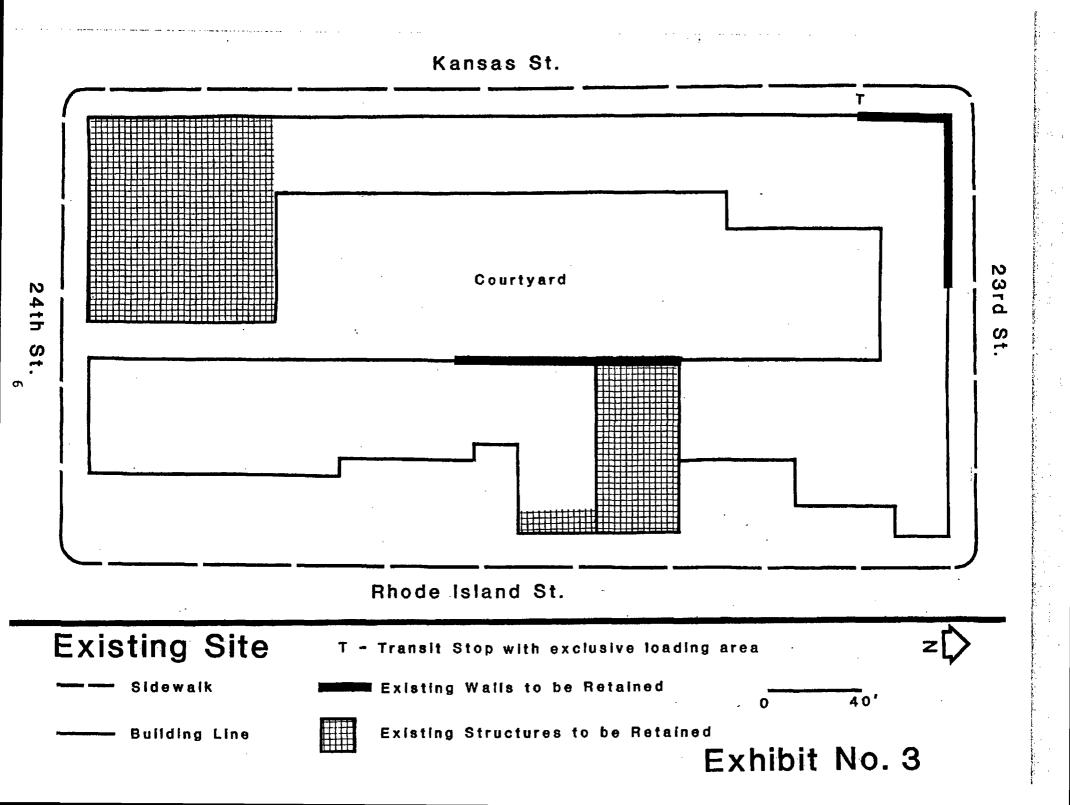
The project would consist of 132 condominiums, 8,500 square feet of neighborhood commercial establishments and 161 parking spaces. Ninety-five new condominiums would occupy 104,700 square feet on four levels (34,400 sq.ft. of site), and 34,980 square feet in the existing buildings (warehouse and garage) would be rehabilitated into 37 condominiums. The development costs of the project, including demolition, are estimated at \$14,700,000 as of March, 1981. Construction costs would be about \$10.2 million of the total (see Appendix A, page 120).

The project is in an RH-2 (House, Two-Family) district, containing predominantly two-family dwellings. Project sponsor would request a zoning reclassification to RM-2 (Mixed Residential, Moderate Density). The proposed project is within a 40 X Height and Bulk District, which limits development to a height of 40 feet and sets no bulk limits.



Site Location

0 600



The proposed project would consist of 4 stories of construction and parking and commercial development at the Kansas Street grade, below a first floor common to the entire project. The interior of the existing building at Kansas and 24th Streets would be remodeled. The penthouse on this building would be removed. The 24th Street elevation of the project (Exhibit 6, page 10) shows the gradient along that side of the proposed project. Due to the site slope, there would actually be 3 different "first floors": on Kansas Street (the lowest); on 24th Street; and on Rhode Island Street (the highest). These differences in elevation, plus the nature of the surrounding development fronting each street, have resulted in different architectural treatments of the elevations.

The Kansas Street side of the project would face the James Lick Freeway. This side of the project has been designed to minimize residents' exposure to the noise and air pollutants from the Freeway (Exhibit 13, page 20 shows proximity of project to Freeway). The Rhode Island Street side of the project (Exhibit 4, page 8) would front on a 2- to 3-story residential block. On 23rd Street (Exhibit 5, page 9) the project would face a ground floor grocery store with residential units and 3- to 4-story residential structures. On 24th Street (Exhibit 6, page 10) the project would face 2-story residential structures. Plans for each of the floors of the proposed development are shown in Exhibits 7-11, pages 11-15. Existing buildings to be retained are indicated on the elevations.

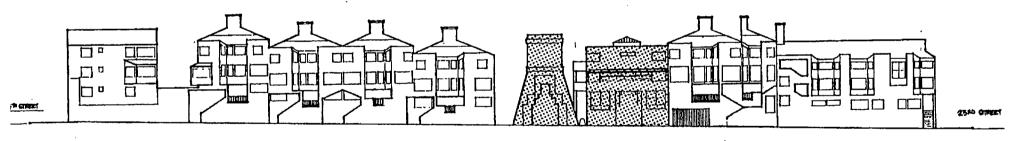
The building would be around the perimeter of the site, surrounding common open space which may include a swimming pool.

There are no landmarks, either designated or nominated, on the site.

Units would be in the mix of sizes and prices shown in Table 1, page 16.



Kansas Street



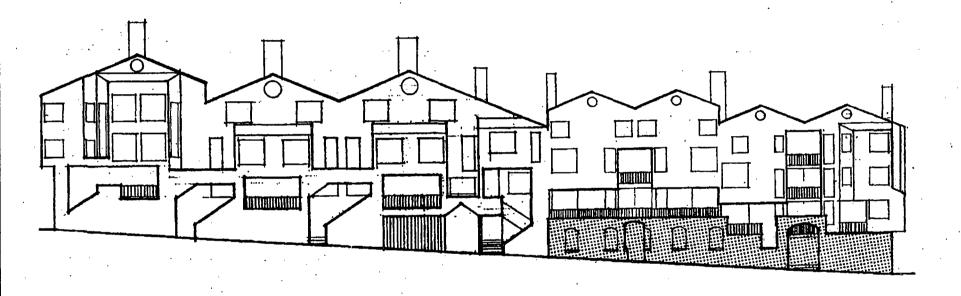
Rhode Island Street

Elevations



existing areas to be retained



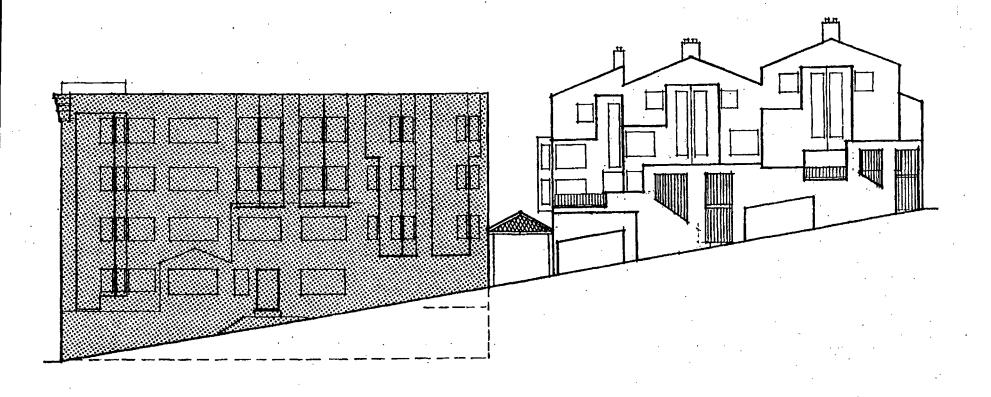


23rd St. Elevation



existing areas to be retained

0 20'

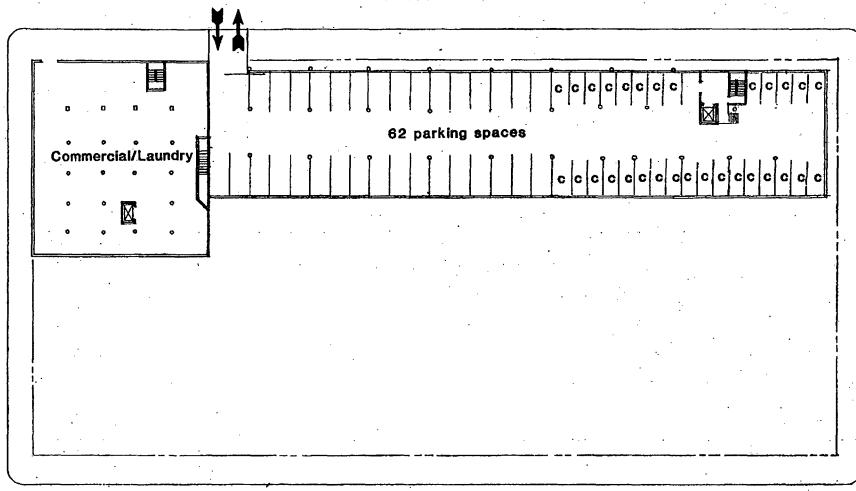


24th St. Elevation

existing areas to be retained

0 20'

Kansas Street



Rhode Island Street

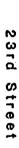
Kansas Street Grade Plan

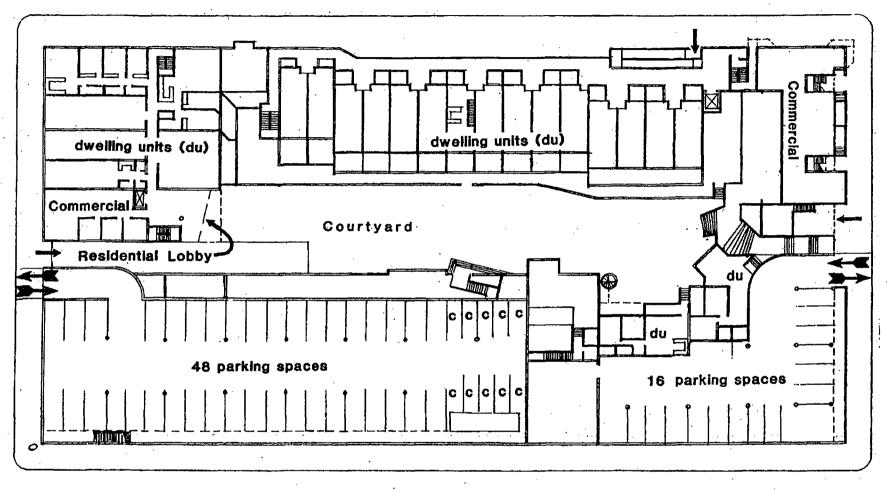
auto entry

C - compact auto

0 45'

z D





Rhode Island Street

First Floor Plan

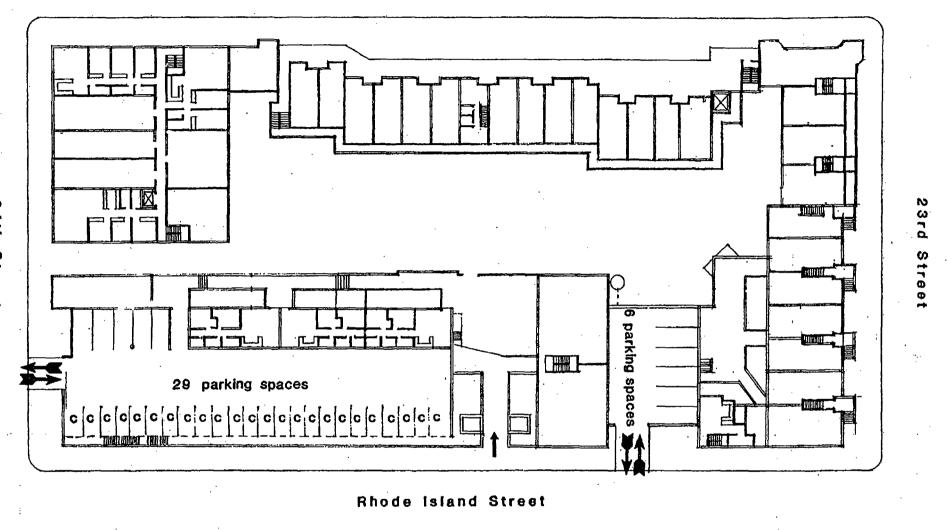
>>> auto entry

-> pedestrian entry

C - compact auto

0 45'





Second Floor Plan

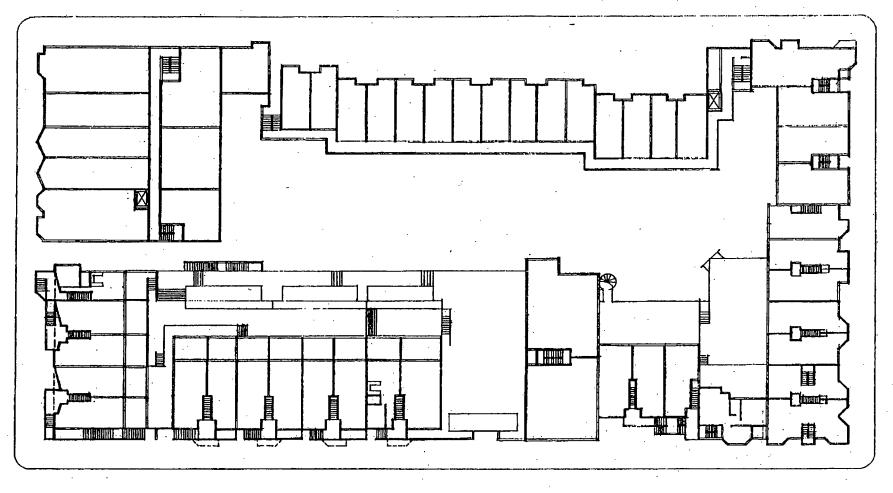
■→ auto entry

pedestrian entry

C - compact auto

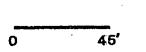




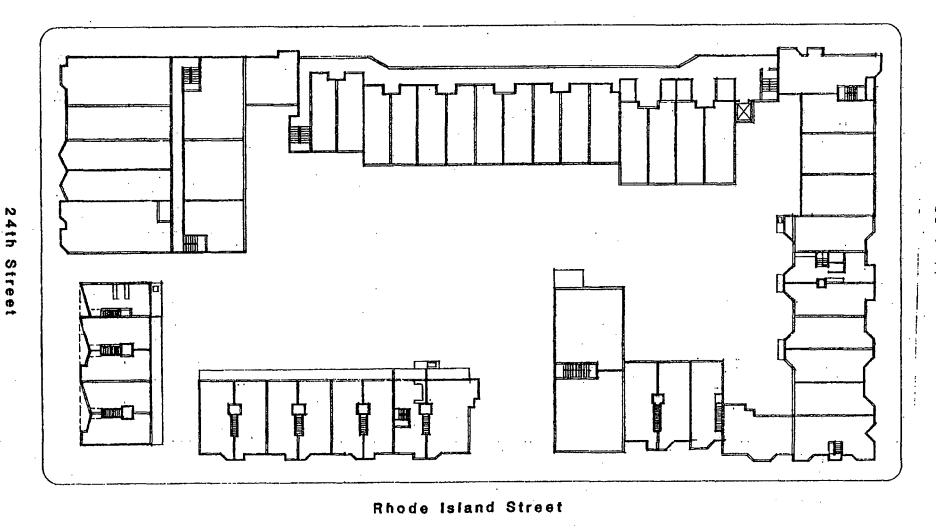


Rhode Island Street

Third Floor Plan







Fourth Floor Plan

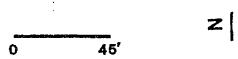


Exhibit No. 11

TABLE 1. UNIT TYPES AND PRICES

Unit Types	No.	Expected Prices (March 1981 Dollars)				
Studios One-Bedroom Two-Bedroom Three-Bedroom	13 29 81 9	\$ 99,000 - \$113,000* \$ 71,000 - \$ 93,000 \$ 99,000 - \$167,000 \$172,000 - \$209,000				
Total Units	132					

^{*}Prices of studio units would exceed prices of 1-bedroom units because the studio units would be larger.

The proposed project would take 21 months to complete, from the time building permits are issued. Demolition would take approximately 3 months. New construction and initiation of rehabilitation would take approximately 15 months. Completion of rehabilitation and remodeling would take approximately 3 months.

D. Required Project Approvals

Certification of the Final Environmental Impact Report by the City Planning Commission is required before any other approval actions may take place. The main project approval action would be zoning reclassification and the Conditional Use Authorization.

Zoning reclassification from RH-2 (Residential Two-Family District) to RM-2 (Residential, Mixed District, Two-Family) would be required for the housing density proposed. Approval of a zoning change requires a public hearing and approval by the Planning Commission and adoption by the Board of Supervisors, pursuant to Section 302 of the City Planning Code.

The project is proposed for Conditional Use authorization (approvable by the City Planning Commission) as a Planned Unit Development (PUD), under the provisions of Sections 303 and 304 of the Planning Code. According to the Code, PUD procedures

"are intended for projects on sites of considerable size, developed as integrated units and designed to produce an environment of stable and desirable character which will benefit the occupants, the neighborhood and the city as a whole. outstanding overall design, complementary to the design and values of the surrounding area, such a project may merit a well reasoned modification of certain of the provisions contained elsewhere in this Code." (Section 304 (a). A PUD must meet the criteria for Conditional Uses in Section 303(c) and elsewhere in the Planning Code. In addition, it must promote applicable objectives of the Master Plan, provide adequate off-street parking and usable open space at least equivalent to Code required open space, and meet other requirements of Planning Code Section 304(d). The project's proposed commercial space also requires Conditional Use approval for a new non residential use in an RM district. This approval would be sought as part of the Conditional Use process for the PUD. Conditional Use approval may be appealed to the Board of Supervisors.

The project must obtain approval as a condominium subdivision, requiring a finding by the Planning Commission that the project would be in conformity with the City's Master Plan (San Francisco Subdivision Code, Section 1332) and approval by the Department of Public Works.

Subdivisions of 50 or more units must provide a minimum of 10% low and moderate income housing, as defined in Section 1341(c) of the San Francisco Subdivision Code, unless the Planning Commission finds that public subsidies are not available (Section 1341(a)).

Notes: Project Description

1. Both are located at 300 Montgomery Street, San Francisco, California 94104.

III. ENVIRONMENTAL SETTING

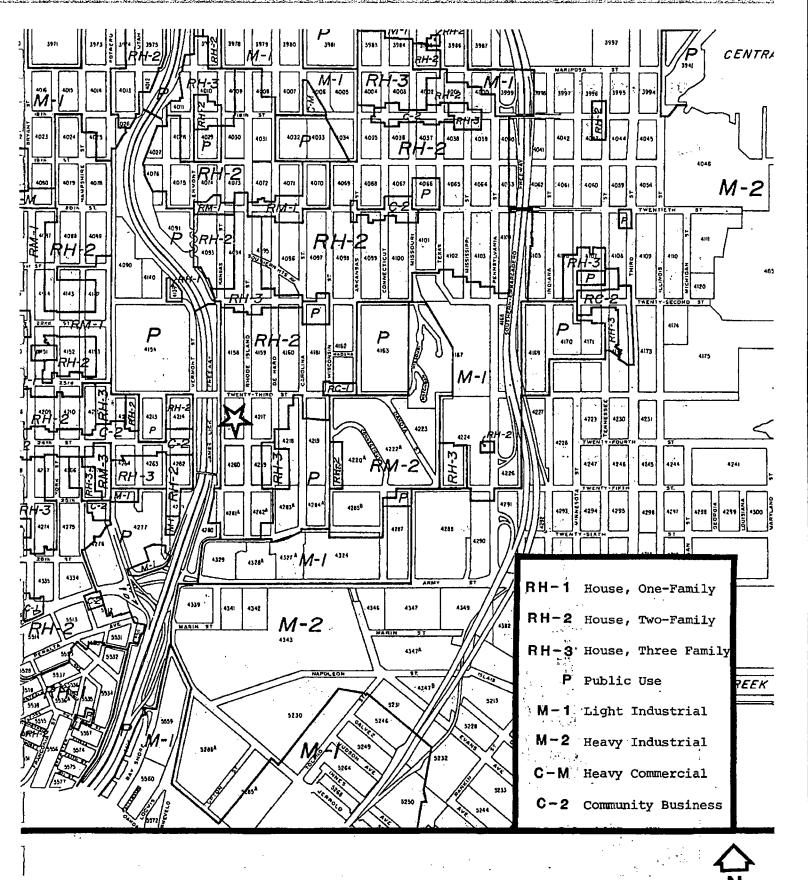
A. Land Use and Zoning

The project block is surrounded on 3 sides by an RH-2 (House, Two-Family) zoning district; two-family homes predominate. To the West is the James Lick Freeway, see Exhibit 12, page 19. With the exception of a grocery store, beneath 6 residential units on the northeast corner of Kansas and 23rd Streets across the street from the site, and the Freeway, both of which are shown in Exhibit 13 (page 20), surrounding land use on the east side of the Freeway is residential. Exhibit 14 (page 21) shows the land uses surrounding the site.

The neighborhood is predominantly made up of 2- and 3-story row houses (Exhibit 15, page 22). Eucalyptus trees line the western edge of Kansas Street along the right-of-way of U.S. 101 (James Lick Freeway), which is approximately 100 feet from the project site. San Francisco General Hospital is approximately 400 feet from the site across the Freeway.

The site contains a complex of 16 structures. The largest building, the warehouse structure, which would be retained, occupies the southwest corner of the site at 24th and Kansas Streets (see Exhibit 6, page 10). Other structures to be retained are the garage, chimney and retaining walls on Rhode Island and the first floor brick wall at the corner of 23rd and Kansas Streets, as shown on Exhibits 4 and 5, pages 8-9.

The so-called Wisconsin Street Housing Site, in the area generally between DeHaro, 23rd, Wisconsin, and 26th Streets, has been proposed for development for many years by various sponsors. The site was used for World War II housing which was demolished and cleared in the 1960's. Exhibit 16 (page 23) shows the relationship of the Wisconsin Street site to the proposed project. The closest part of the Wisconsin site, at DeHaro and



Zoning

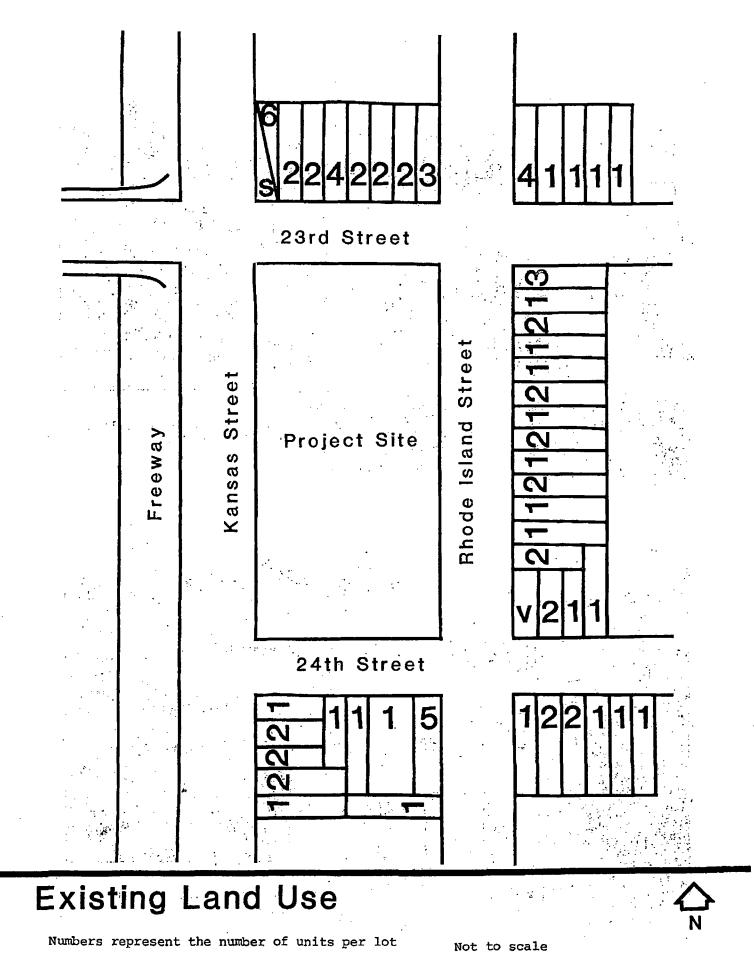


Site

0 800







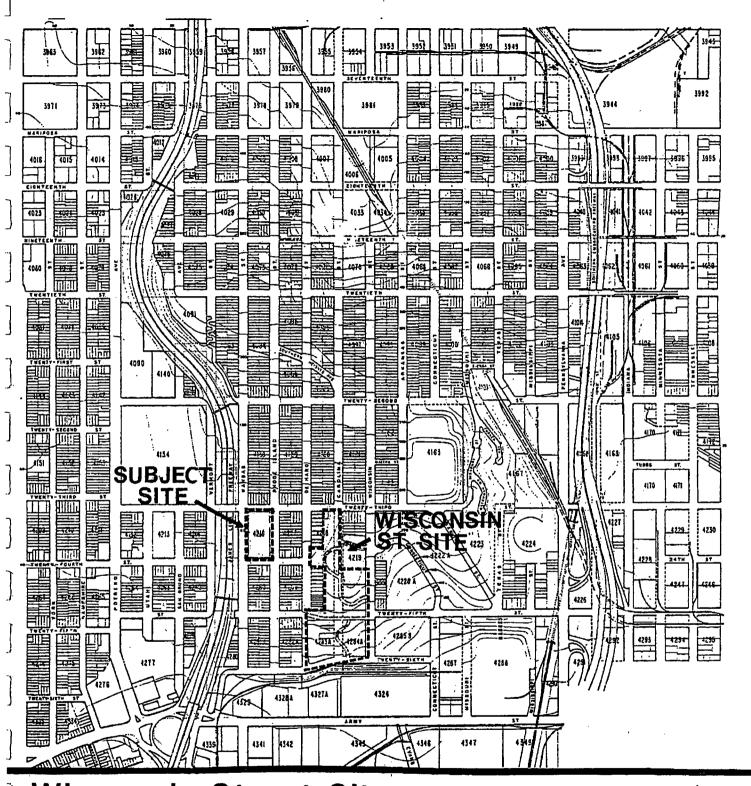
V Vacant

S Store

210







Wisconsin Street Site



600'

24th Streets, is a block away. The Potrero Hill Neighborhood Improvement Plan recommends development of 175 family units, "including a substantial amount of dwelling units for lower income households" for the Wisconsin site. In February 1981 the Board of Supervisors initiated a proposal to rezone the property from P (Public) to RH-2; environmental review, City Planning Commission approval and Board adoption are expected to occur during 1981. There is no presently active development proposal for this site.

City Planning files indicate several other recent or proposed projects in the vicinity of the proposed project. In 1978 an apartment project, one half block from the proposed project, was completed at 2120 24th Street and 3 duplexes were completed at 205-207 Arkansas Street, 9 blocks northeast of the proposed project. Three warehouse buildings have been proposed for 1453 25th Street, 7 blocks east of the project. (Building Permit Application Number 7812869 and Office of Environmental Review Case Number EE 78.420).

The nearest RM-2 (Residential, Mixed District, Moderate Density) zoning, is 3 blocks from the site, east of Wisconsin Street. RH-3 (Residential, House, Three-Family) Districts are a block north and a block southeast of this site. A small RC-1 (Residential, Commercial Combined, Low Density) area is 3 blocks east at 23rd and Wisconsin, adjacent to the RM-2 area. A C-2 (Community Business) district extends along 24th Street, west of the Freeway and M-1 (Light Industrial) districts are found about 2400 feet east and 2 blocks south of the site. Although there is a mix of zoning and land use in the area, the site is surrounded by residential uses.

Notes: Land Use and Zoning

1. San Francisco Department of City Planning, Potrero Hill Neighborhood Improvement Plan, endorsed by the Planning Commission, 3 August 1978, Resolution 8036, page 14.

B. History of the Site

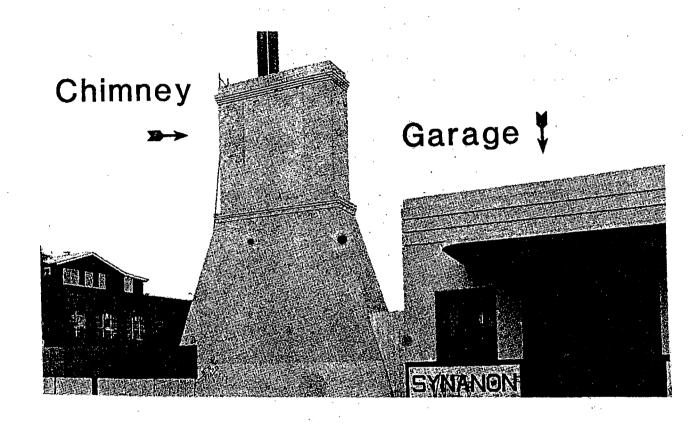
· 特别的 经

The San Francisco Pioneer Varnish Works, owned by the Hueter Bros. & Co. (Gustave and Ernest L. Hueter), dealers in paints, oils, and artists' materials, was established in 1858. Hackett (1884) states that the factory "is located on Sonomal Street, between Twenty-third and Twenty-fourth Streets, and covers one city block with its buildings and accessions, erected after the latest European plans... The trade of this house is very great, extending so far as Sydney and Melbourne. At the World's Fair in 1879, at Sydney, its varnishes were awarded the highest premiums." A chimney built as part of the paint manufacturing plant would be retained in the proposed project (Exhibit 17, page 26). It is listed in the San Francisco Department of City Planning's 1976 Architectural Survey, an inventory of structures of architectural significance. The chimney is rated "3" in this inventory.3

In 1906 the northern half of the site was owned by the Hueter Bros. and the southern half was owned by E. L. Hueter and J. J. Wentworth.⁴ The warehouse at 24th and Kansas Streets, which would be retained in the proposed project, was designed by W. H. Ellison, Consulting Engineer, then of 369 Pine Street in San Francisco and was built by Barrett and Hilp in the twenties.⁵

National Lead Company (Dutch Boy, Inc.) purchased the site in 1930 and continued paint manufacture until the site was acquired by the private Synanon organization in 1971. Synanon Inc. used the site as San Francisco work headquarters and residential facility. Synanon facilities included various workshops, printshops, automotive repair shops and other work areas. Synanon sold the site to the project applicant in early 1980. There is currently no authorized activity on the site.

Prior to the present RH-2 zoning the site was zoned R-3 which permitted one dwelling unit per 800 square feet of lot. Under R-3 zoning 100 units could have been built on the site. The paint manufacturing plant was a nonconforming use with a 2 May 1980 termination date.



Chimney and Garage to be Retained

Notes: History of the Site

- 1. Street names and some street alignments changed in this area about the turn of the century. It is not certain whether this refers to the present site or a block further east.
- 2. Hackett, Fred, H., editor, <u>Industries of San Francisco</u>, Payot, Upham & Co., Publishers, San Francisco, 1884, pp. 122-3 (Available at San Francisco Public Library).
- 3. Jonathan Malone, Administrative Assistant, Landmarks Preservation Advisory Board, personal communication, 21 January 1981. Each structure is numerically rated according to its overall architectural significance. The ratings range from a low of "0" to a high of "5". Factors considered include architectural significance, urban design context, and overall environmental significance. The architectural survey resulted in a listing of the best 10% of San Francisco's buildings.
- 4. The Hicks-Judd Company, The San Francisco Block Book, 4th Edition, 1906. (Available at San Francisco Public Library.)
- 5. San Francisco Department of Public Works, Central Permit Bureau, Building Permit filed 23 April 1923.

C. Transportation

Street Characteristics. Major thoroughfares nearest the site are Potrero Ave., 4 blocks west, and Army St., 3 blocks south. The site is adjacent to the James Lick Freeway (U.S. 101) with connections north and south at Army St., about 1000 feet south of the site. The connection from the south does not allow left turns from Army St. onto Vermont St.; thus freeway access from the south is more convenient at Mariposa St. (from the Vermont St. exit), 5 blocks north of the site. (See Exhibit 18, page 29).

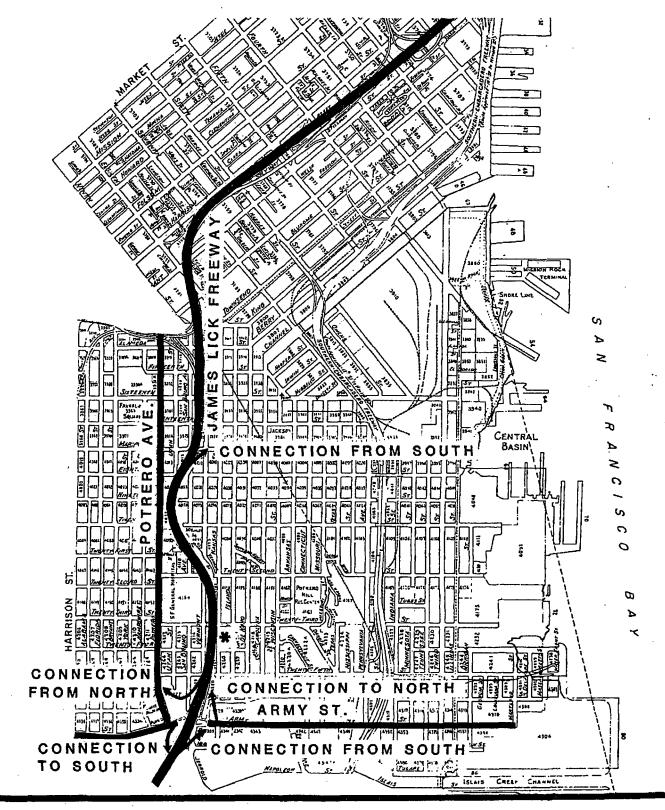
The characteristics of surrounding streets are given in Table 2.

TABLE 2: STREET CHARACTERISTICS

Street	Right of Way	Travel Lanes	Parking Lanes	Sidewalks
23rd St.	66'	2 @ 12'	2 @ 9'	Both sides, 12'
Rhode Island St.	80'	2 @ 15'	2 @ 10'	Both sides, 15'
24th St.	66'	2 0 12'	2 @ 9'	Both sides, 12'
Kansas St.	80'	2 0 15	2 @ 10'	West side, 5'
•	,		•	East side, 15'

Traffic volume on 23rd St. is about 3070 vehicles per day, ² on Rhode Island St. about 750 vehicles per day, on 24th St. about 100 vehicles per day and on Kansas St. about 2100 vehicles per day.³

The 23rd and Kansas St. intersection is controlled by a 2-way stop on Kansas St. The capacity of that intersection is about 1175 vehicles per hour. About 680 vehicles pass through the intersection in the evening peak hour (4:15 to 5:15 p.m.), at level of service A. (See traffic counts and definitions of levels of service in Appendix B, pages 122-126.)



Street Map Showing Connections To & From James Lick Freeway

29

 Q_N

- * Project Site
- Freeway
- Major Thoroughfare

0 1200'

The nearest signalized intersection is at 23rd and Potrero Sts., 4 blocks west, which operates at level of service C or better in the evening peak hour.

There are no transit preferential lanes on any of the streets surrounding the site.

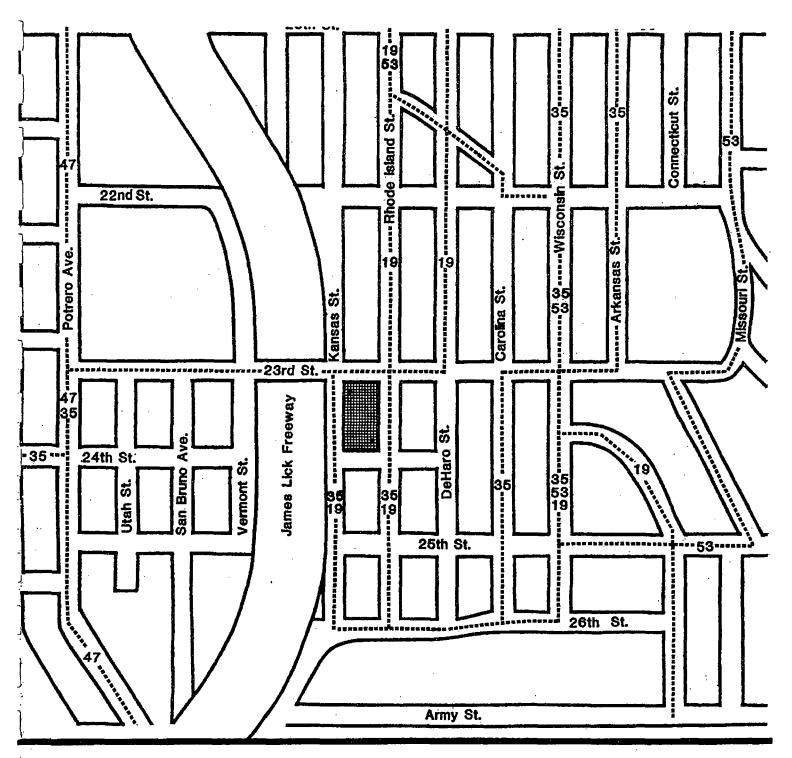
Transit. Four MUNI bus routes run adjacent to or near the site: 53-Southern Heights, 35-Eureka, 19-Polk, and 47-Van Ness (see Exhibit 19, page 31).

Pedestrians. Pedestrian volumes on the sidewalks surrounding the site are relatively low. The highest volumes occur at the corner of 23rd and Kansas during the peak (5:00 - 6:00 p.m.) hour. Pedestrian movement is at a level of service A (less than 60 pedestrians per hour on 23rd and 24th Sts. and less than 75 pedestrians per hour on Kansas and Rhode Island Sts.)

<u>Bicycles</u>. The Transportation Element of the Comprehensive Plan designates no streets surrounding the site as bicycle routes. The closest designated route is on Bryant St., 7 blocks west.

<u>Parking</u>. Except for the facilities at San Francisco General Hospital, a block from the site across the Freeway, there are no off-street parking lots within 1/4 mile of the site. There are no special loading zones on any of the streets surrounding the project except for a bus stop on Kansas at 23rd as shown on Exhibit 3, page 6.

On-street parking surrounding the site includes curbside parking as follows: a total of 30 spaces on the 2 sides of Kansas St., 17 spaces on the west side of Rhode Island St., 9 spaces on the south side of 23rd St., and 8 spaces on the north side of 24th St., a total of 64 spaces.



Transit Service

 \triangle_{N}

----19---- MUNI Bus Routes



Project Site

Not to scale

Bus Stop

These parking spaces are currently used by neighbors or by commuters, primarily San Francisco General Hospital employees. For all streets surrounding the site, parking occupancy averages approximately 50%, ranging from 90% on Kansas St. to 10% on Rhode Island St. Field observation of drivers using local parking spaces indicate that approximately 50% of daytime users are generated by San Francisco General Hospital (SFGH) (8:00 a.m. - 6:00 p.m.) and approximately 20% are generated by SFGH in the evening hours.9

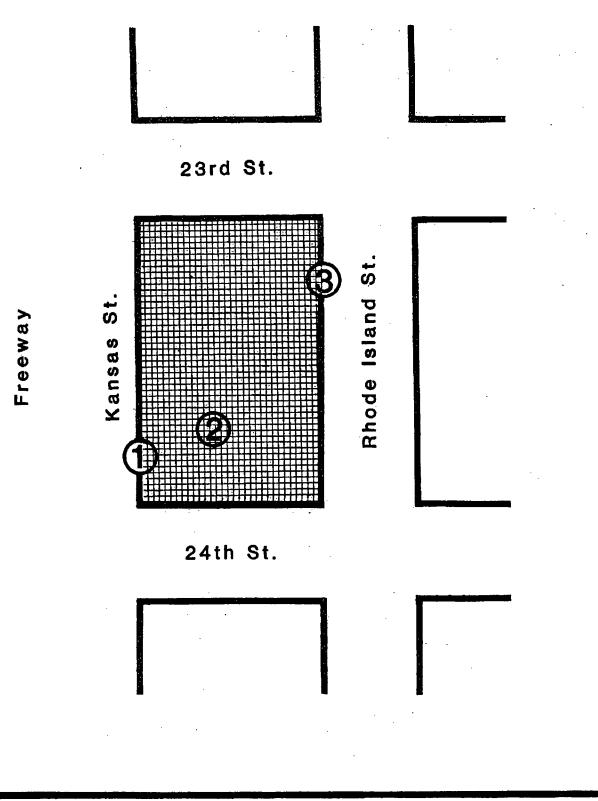
Notes: Transportation

- 1. Major Thoroughfare: A cross-town street whose primary function is to link districts within the City and to distribute traffic from and to the freeways; a route generally of citywide significance; as identified in the Thoroughfare Plan of the Transportation Element of the San Francisco Comprehensive Plan.
- 2. This may be compared to a traffic count taken on 5 October 1976 at the intersection of 23rd and Vermont Streets. Increasing the 1976 traffic count by 2% per year per information from Nelson Wong, San Francisco Department of Public Works, Traffic Engineering Division, telephone conversation, 29 January 1981, traffic at that intersection would be expected to be 5700 vehicles per day.
- 3. EIR Consultants, Ted Kreines, and Richard K. Hopper, P.E., field observations, 4 February 1981. Traffic counts on these 4 streets were taken for the evening peak hours (4:15 to 5:15 p.m.). This evening peak hour is assumed to be 10% of the total daily traffic. This assumption is based on data from the San Francisco Department of Public Works, Traffic Engineering Division, Map, Evening Peak Hour Traffic Flow on Principal Streets and Highways, 1974-1976 and Map, Twenty-Four Hour Traffic Flow on Principal Streets and Highways, 1974-1976.

- 4. Calculation method from: Institute of Transportation Studies, "Fundamentals of Traffic Engineering," 8th Edition, 1973, p. 7-7.
- 5. EIR Consultant, Ted Kreines, field observation, 4 February 1981.
- 6. Scott Shoaf, San Francisco Department of Public Works, Traffic Engineering Division, telephone conversation, 3 July 1980 and reference 4 above.
- 7. 1.3 pedestrians per minute: field observation by Ted Kreines, 4 February 1980.
- 8. "Pedestrian Planning & Design," John J. Fruin, Metropolitan Association of Urban Designers & Environmental Planners, Inc., New York, 1971, p. 78.
- 9. EIR Consultants Richard K. Hopper, P.E., 7 July and 15 July 1980 and Ted Kreines, 4 February 1981.

D. Noise

Acoustical measurements were taken at three locations (shown on site map, Exhibit 20, page 34) to quantify existing noise conditions at the site area: on Kansas Street approximately 100 feet from the near lane of traffic on Route 101; in the courtyard in the center of the existing building complex on the site; and on the west side of Rhode Island Street between 23rd and 24th Streets. The three positions were chosen as representative of the noise environment of the block: noise levels at point 1 represent exposure of project units which would front toward the Freeway; point 2 represents levels within the proposed courtyard; and point 3 represents noise exposure of the nearby residential area and units which would front on Rhode Island. A summary of the noise measurements is given in Table 3 (page 35). The noise



Noise Measurement Positions



Project Site

Source: Charles M. Salter Associates, inc.

TABLE 3: AMBIENT NOISE MEASUREMENTS

Location of Measurement	Day and Time	<u>L</u> 1	<u> 10</u>	<u> 150</u>	L90	L99	Leq	Comments
Site 1. On Kansas Street, 60 feet from building corner at 24th Street, on 3rd Floor of building, 1 meter from facade, 100 feet to nearest lane of freeway.	18 July 1980 5:10-5:20 pm	79	77	76	74	74	76	8-lame freeway depressed 20 feet below grade.
Site 2. In courtyard 120 feet from building edge at 24th Street and 120 feet from building edge at Kansas Street, 2 meters from ground.	18 July 1980 5:30 pm		57	57	55		56	Steady noise from freeway through gate/entry on Kansas Street
Site 3. Near curb toward Rhode Island Street 60 feet from 24th Street building edge, 15 feet from building facade.	18 July 1980 5:50 pm	85	69	60	56		70	5 minute sample with bus.
			64	60	58		61	5 minute sample without bus.

The L_{10} , L_{50} and L_{90} are statistical descriptors indicating the noise levels which were exceeded 10, 50 and 90 percent of the time period, respectively. The L_{eq} is the equivalent sound level and is an alternative method for describing the average noise level.

-- No measure taken.

Source: Charles M. Salter Associates, Inc.

environment is dominated by noise from eight lanes of freeway traffic, and by bus traffic noise on Rhode Island, 23rd and 24th Streets. The acoustical consultant characterizes the area as "generally noisy."²

The Environmental Protection Element of the Master Plan predicts a background noise level of 65 $L_{\rm dn}^3$ for this site. Actual measurements showed the site to be noisier on Kansas Street, estimated at 75 $L_{\rm dn}^4$ on the basis of short-term measurements, because this side of the site is next to the Freeway. In the courtyard the $L_{\rm dn}$ drops to about 55-60 dBA; on the Rhode Island side it is 60-65 dBA, with peak noise at 85 dBA when buses pass by. 5

Notes: Noise

- 1. Measurements made by Charles M. Salter Associates, Inc., under contract to EIR consultant Kreines and Kreines.
- 2. Acoustical Consulting Report for 2222 Limited EIR, Charles M. Salter Associates, Inc., 28 August 1980. Available for public review at the City Planning Office of Environmental Review, 45 Hyde Street, Room 319.
- 3. Decibel: A logarithmic unit of sound energy intensity.

 Sound waves, traveling outward from a source,
 exert a force known as sound pressure level (commonly called "sound level"), measured in decibels.
 - dBA: Decibel corrected for the variation in frequency response of the typical human ear at commonly-encountered noise levels.
 - L_{dn}: An averaged sound level measurement, based on human reaction to cumulative noise exposure over a 24-hour period, which takes into account the greater annoyance of nighttime noises. Noise

between 10 p.m. and 7 a.m. is weighted 10 dBA higher than daytime noise.

- 4. For the purposes of this report L_{dn} has been considered to be equivalent to CNEL. CNEL = Community Noise Equivalent Level; similar to L_{dn} except that sound level measurements taken between 7 p.m. and 10 p.m. are weighted 5 dBA higher than daytime sounds in additional to the 10 dBA 10 p.m. to 7 a.m. weighting.
- 5. L₁: 85 dBA, the noise level exceeded during the 1% noisiest time.

E. Topography and Geology

The site is bounded by 4 streets with varying slopes: 24th Street has a slope of 13%; 23rd Street has a slope of 7%; Kansas Street has a slope of 4%; and Rhode Island Street has a slope of 1%.

The site has a cross-slope of 5.2%, measured from the northwest to southeast corners, representing a grade change of 24 feet within a distance of 452 feet.

The site slopes down to the west at a ratio of approximately 6 horizontal to 1 vertical (6:1). Borings drilled by the soils engineer 1 indicate that the site is generally underlain by 2 to 10 feet of fill. Fifteen feet of sand fill were found on the east side of the site. Under the fill is clay, sand, and gravel; below these are shale and serpentine rock. Groundwater level is below the level of the borings.

The fill would not provide adequate foundation support, and so would have to be removed down to the natural soil level, to provide a suitable base for project building foundations.

The San Andreas, Hayward, and Calaveras earthquake faults are 7 miles southwest and 12 and 20 miles northeast of the site,

respectively.² The soils on the site are not subject to lique-faction³ or settlement in case of an earthquake.

Notes: Topography and Geology

- 1. This section is based on the 17 November 1980 report by Warren Wong (California license No. CE 25777), Geo/Resource Consultants for project sponsor: "Geotechnical Investigation, Proposed Potrero Hill Housing Development, 24th and Kansas Streets, San Francisco, California."
- 2. A map showing the location of these faults with respect to San Francisco can be found on page 48 of Final EIR EE 79.57, Daon Building, San Francisco City Planning Commission, 12 June 1980, and is hereby incorporated by reference. That EIR is available for public review at the Department of City Planning, Office of Environmental Review, 45 Hyde Street, Room 319.
- 3. Liquefaction: Earthquake-induced transformation of a stable granular material, such as sand, into a fluidlike state, similar to quicksand.

F. Plants

The site is urbanized. Three, 8-inch diameter eucalyptus trees, are growing on the site along the Rhode Island Street wood fence. There are 7 street trees in sidewalk planters along 24th Street, and one in a sidewalk planter on 23rd Street.

IV. ENVIRONMENTAL IMPACT OF THE PROPOSED PROJECT

A. Land Use and Zoning

Rezoning would be required in order to permit the proposed 132 units on this site. Table 4 shows the density which could be permitted by various zoning districts on this 80,000-square-foot site. Present RH-2 zoning would permit 53 units, and RM-2 (proposed) or RC-2 zoning would permit 133 units. Thus, the project would include 80 more dwelling units than presently allowable. districts allow more variety of building sizes and designs than RH districts. According to Planning Code Section 206.2, RM districts "...are intended to recognize, protect, conserve and enhance areas characterized by a mixture of houses and apartment buildings, covering a range of densities and building forms...and contain supporting non-residential uses." New non-residential uses in RM districts are permitted with conditional use authorization. districts are characterized by structures combining residential and first floor, neighborhood-serving commercial uses, with less of a rear yard requirement than comparable RM districts. The proposed project would have residential units over commercial space. As the housing over a grocery on the north side of Kansas and 23rd is the only other such arrangement in the immediate neighborhood, RC zoning would not be as likely to be recommended or approved as would RM zoning. Project sponsor proposes to apply for RM-2 zoning with a conditional use authorization for the commercial space. Some of the units would have private terraces.

RM-2 districts require 80 square feet per unit of private usable open space, or 107 square feet of common usable open space per unit. The project would provide 29,160 square feet of common usable open space, or about 175 square feet per unit.

New construction would comply with the 40-foot height limit. The sponsor originally proposed to renovate the penthouses on top of the building at 24rd and Kansas Streets. No construction permit appears to have been issued for these penthouses. As they were constructed without a permit, they must be demolished rather than renovated. The main portion of the building, about 60 feet tall on the Kansas Street frontage, was constructed pursuant to a 1923 building permit application and, therefore, present height limits do not apply.

TABLE 4. ALLOWABLE HOUSING DENSITY BY ZONING DISTRICT

	District	Required sq. ft. per unit	Maximum number of units
RH-2,	Residential, House District, Two Family (present zoning)	1500 ¹	53
RH-3,	Residential, House District, Three Family	1000 ¹	80
RM-1,	Residential Mixed District, Low Density	800	100
RC-1,	Residential-Commercial Combined District, Low Density	800	100
RM-2,	Residential Mixed District, Moderate Density (proposed zoning)	600	133
RC-2,	Residential-Commercial Combined District, Moderate Density	600	133
RM-3,	Residential Mixed District, High Density	400	200
RC-3,	Residential-Commercial Combined District, Medium Density	400	200

¹ Development at this density requires conditional use permit.

B. Historic Structure

The chimney, described on page 25, would be retained as a symbol of the long history (over 100 years) of industrial use of the site.

C. San Francisco Comprehensive Plan and Other City Policies

This EIR section compares the proposed project with the Residence and Urban Design elements of the San Francisco Master Plan. Other Master Plan elements, such as Transportation, are discussed in the appropriate sections of this EIR.

Residence Element. The project would comply with Objective 2, Policy 1 of the Residence Element, "In existing residential neighborhoods, ensure that new housing relates well to the character and scale of surrounding buildings and does not reduce neighborhood livability", to the extent that the design succeeds in its intent to relate to development across the street. The scale of the proposed project would be larger than that of the surrounding residential development. The most massive element in the proposal is the existing building at Kansas and 24th Streets which is to be renovated. As this building has been on the site for nearly 60 years, it is part of the existing neighborhood scale.

The project would comply with Objective 2, Policy 2, "Encourage the conversion of underused non-residential land to residential use..." by converting an unused industrial site in a non-industrial area to residential use.

The project would comply with Objective 2, Policy 4, "Encourage construction of a variety of units suited to the needs of households of all sizes", by providing a mix of sizes of units from studios to 3-bedroom units.

The project would comply with Objective 3, Policy 2, "Allow small-scale non-residential activities in residential areas where they contribute to neighborhood livability", by providing pedestrian and neighborhood-oriented retail stores in an area where, except for one grocery, the nearest shopping area is on the other (west) side of the Freeway.

Objective 4, Policy 1, states, "Preserve and expand the supply of low and moderate income housing." The project would not comply with this policy unless a subsidy is available.

Urban Design Element. The project would comply with Objective 2, Policy 4 of the Urban Design Element, "Preserve notable landmarks and areas of historic architectural aesthetic value, and promote the preservation of other buildings and features that provide continuity with past development", to the extent feasible, by preserving the incinerator and those buildings and walls that are structurally safe and appropriate for reuse (listed in the project description, page 4).

The project would comply with Objective 3, Policy 5, "Relate the height of buildings to important attributes of the city pattern and to the height and character of existing development", and Policy 6, "Relate the bulk of buildings to the prevailing scale of development to avoid an overwhelming or dominating appearance in new construction", to the extent that it would preserve the present height and bulk pattern and hollowed square building configuration of the present site development, although buildings on the site are taller and more massive than the surrounding residential development. (They are not as large-scale as the San Francisco General Hospital buildings about a block away, but those are probably less relevant to the character of the project area, because they are on the other side of the Freeway.)

The project would comply with Objective 4, Policy 2, "Provide buffering for residential properties when heavy traffic cannot be avoided", by design measures such as double pane glass to protect dwellings on the west side of the project from freeway impacts, and by creating a wall to buffer noise on the Kansas Street side.

Potrero Hill Neighborhood Plan. The proposed project would comply with policies in the Neighborhood Plan, "Housing Strategy C - Increase opportunities for Potrero Hill renters to become home owners." and "Economic Development Strategy B - Promote reuse and rehabilitation of the underutilized commercial and industrial facilities as well as the retention and expansion of existing activities.", by providing housing in the Potrero area on an underused industrial site. The Neighborhood Plan calls for "theme trees" along 23rd Street and street trees are also required by Section 143 of the Planning Code. No landscaping plan has been developed yet, so it is not known whether the project would comply with the "theme tree" policy.

D. Socioeconomics

Employment. Based on a March 1981 estimated construction cost of \$10,200,000, the project would generate approximately 60% of that, or \$6,120,000, for gross labor costs.1

The completed project would create full-time employment for approximately 22 persons. Nineteen would be employed in the commercial space, based on an estimate of one person per 450 gross square feet of commercial space.

The condominiums would employ three persons, an on-site manager, janitor and mechanical maintenance person. Other employment would be generated for additional project management, land-scape, and elevator maintenance; and security personnel. These could be part-time positions.

Revenues. Municipal tax revenues to the City and County of San Francisco generated by the proposed project have been estimated in 1980 dollars at 1980-81 tax rates (see Table 5, page 44). Total annual revenues to the City would be about \$200,000 (1980 dollars) at those rates.

The projected revenue does not include the 1-1/2% tax on selling the condominium units, a tax paid once at the time of sale of each unit. Total estimated revenue to the City from this source would be about \$240,000 (1980 dollars).

Economic Effect of Victoria Mews on Potrero Hill. The Potrero Hill Advisory Committee has requested² a study of the Victoria Mews project (bounded by 19th, 20th, Carolina and Wisconsin Sts.), comparing housing prices in that particular residential neighborhood before and after completion of Victoria Mews, in order to find out if that development caused prices on Potrero Hill to rise more rapidly than they would have otherwise. Statistical analyses of this type are difficult because of variation in size and design from one project to another which causes prices to vary and the inherent inability to obtain local

TABLE 5: ESTIMATED PROJECT-GENERATED MUNICIPAL TAX REVENUES IN 1980 DOLLARS, CALCULATED AT 1980-81 TAX RATES 1

Tax	Amount
San Francisco Property Tax	\$147,000
San Francisco Unified School District	13,000
San Francisco Community College District	1,000
BART	900
BAAQMD ²	400
Total Non-Bond Property Tax	\$162,300
Bond Retirement	39,000
Payroll	1,800
Total Annual Tax Revenue	\$203,100

Calculated on a basis of average unit price of \$123,000, \$16,200,000 = total sales price = market value; assessed value = 25% market value; \$4/\$100 assessed valuation non-bond tax rate; \$0.97/\$100 assessed valuation for bond retirement; distribution of taxes as in 1980; payroll tax calculated on the assumption that 1/2 or 11 on-site jobs would qualify for payroll tax and that average gross income would be \$15,000

information about sales uninfluenced by the presence of that project; it is thus impossible to identify what the neighborhood prices would have been without Victoria Mews.

The data in Table 6, page 45, on prices in Victoria Mews, the Victoria Mews area, and the proposed project area are meant to be suggestive only, as inferences from such a small sample are statistically unreliable. The data suggest that housing prices on Potrero Hill are rising at a faster rate than in San Francisco as a whole and that housing prices at Victoria Mews are rising faster than on the rest of Potrero Hill.

BAAQMD = Bay Air Air Quality Management District.

TABLE 6: COMPARATIVE SALE AND RESALE PRICES OF POTRERO HILL HOUSING

	Earliest	Latest		
	Sale Price	Sale Price	Overall	Annual
	in Dollars	in Dollars	Percentage	Percentage
Location	and Year Sold	and Year Sold	Increase	Increase
Project Area				
2110 - 23rd Street	\$54,000	\$103,000	91%	13%
(2-family structure)	(1973)	(1980)		
25th Street between				
Rhode Island and Kansas	\$25,000	\$ 75,000	200%	50%
Streets	(1976)	(1980)		
(Single-family house)				
1254 DeHaro Street	\$40,000	\$138,000	245%	123%
(2-family structure)	(1977)	(1979)	•	
Victoria Mews				. -
VICCOITA NEWS				
2 bedroom unit	\$120,000	\$188,000	57%	29%
	(1978)	(1980)		
2 bedroom unit	\$154,000	\$300,000	95%	46%
with deck	(1978)	(1980)		
	·		•	
Victoria Mews Area				
20th and Wisconsin	\$ 65,000	\$280,000	331%	13%
Streets	(1954)	(1980)		
(Single-family house)				
18th Street between	\$ 58,000	\$138,000	140%	28%
De Haro and Rhode Island	•	(1980)		
Streets			·	
(Single-family house)	•			
20th and Carolina	•			
Streets	\$160,000	\$495,000	209%	52€
(6-unit apartment	(1976)	(1980)		•
building)	•			

Source: Edward E. Pendergrass, Peterson Associates Realtor, 1447 20th Street, San Francisco, personal communication, 5 September 1980. Formerly a real estate salesperson for Victoria Mews and currently a real estate salesperson for the Potrero Hill area.

Notes: Socioeconomics

- 1. San Francisco Department of City Planning, <u>FEIR</u>, <u>Ocean Beach</u> Park Estates, EE 78.178, 30 August 1979, p. 126.
- Potrero Hill Advisory Committee, special meeting, 8 July 1980.

E. Transportation

The project would generate a total of about 740 one-way vehicle trips per day, about 340 condominium-related, 370 for the commercial space, and 30 commercial/residential delivery and service trips. (See Table 7, page 47.)

1981 counts made for this EIR (discussed in Setting, page 28) agree with counts at 23rd and Vermont made by the Department of Public Works in 1976, within probable measurement error, and show that the peak hour for traffic on 23rd St. is 4:15 - 5:15 p.m. As 23rd is the busiest street in the area, project impacts on traffic flow on 23rd could potentially have the greatest effect. The peak in project generated traffic, 88 vehicles per hour, would occur later than the total traffic peak, or from 5:00 to 6:00 p.m.

During the 4:15 to 5:15 peak traffic hour the project would be expected to generate 59 trips. It is estimated³ that 60% of the project's 59 peak hour trips, or about 20 trips, would be added, for a traffic increase of about 4% over the present peak hour traffic volume of about 520 vehicles on 23rd Street.² This increase would not change the present traffic Level of Service A (free flow).

On Kansas St. about 10 vehicles would be added to the peak hour 220, an increase of about 5% which would not affect the flow of traffic. Addition of about 5 trips to the peak hour volume of about 70 on Rhode Island and 4 trips to the peak volume of 10 trips on 24th St. would increase traffic by about 7% and 40%, respectively, and would not affect the present flow of traffic.

Intersection traffic counts and predicted volumes with the project are shown in Appendix B, pages 123-127. Intersection analysis indicates that all four project intersections would remain at Level of Service A. The Level of Service on the westbound 23rd St. approach to the Potrero Ave. intersection, 4 blocks east of the site, is B at the p.m. peak hour. This would not change with the project. As the free flow of vehicular traffic around the project would not be affected, no impacts on freedom of bus movements would be expected.

TABLE 7: AVERAGE WEEKDAY VEHICULAR TRIP GENERATION

Type of Trip	Purpose of Trip	Total Trips
Residential	**************************************	170
Auto	Work	170
Auto	Shopping	70
Auto .	Other	100
	*	•
Total Residential		340 ¹
Commercial		•
8,500 square feet		370 ²
Commercial and Residential Delivery		30
Service	•	
Total All Trips		740

Note: All numbers rounded off.

Source: Richard K. Hopper, P.E., Consulting Engineer

^{1 2.6} vehicle trips per unit.

^{2 44} vehicle trips per 1,000 square feet.

The project would generate 40 pedestrian trips during the project peak hour. If all these pedestrians were to be at the most crowded section of the sidewalk, the pedestrian count would rise from 1.3 to 2.0 per minute, with no change from the present Pedestrian Level of Service A. Pedestrians were counted as they passed a fixed observer on the sidewalk.

Field investigation indicates that buses in the project vicinity could accommodate the approximately 50 transit trips (15% of daily total) the project would generate during the peak hour. Assuming that all passengers would be evenly distributed by bus route, approximately 5 passengers (50 divided by 5 bus stops for each of the 2 routes, 19-Polk and 35-Eureka) would board or depart a bus at any single stop during the peak hour. Buses on both routes run every 10-12 minutes at peak hours. The average increase in passenger load per bus would be about 1 per stop, or a maximum of 5 for the project. Passengers going downtown may be transferring to other lines which may not have available capacity.

The existing vehicle access points on Kansas and 24th Sts. would be maintained and additional access would be added from Rhode Island, to 6 parking spaces, and access from 23rd St., to 16 parking spaces. The 24th St. entrance would lead to 77 parking spaces and the entrance on Kansas St. would lead to 62 spaces. Access to the largest parking area is from 24th St. where there is no MUNI line. During rush hour, cars entering and exiting on Kansas St. could interact with buses. The smaller parking areas accessed from 23rd and Rhode Island Sts. would have fewer such interactions.

The 132 dwelling units would require 132 off-street parking spaces and, as the Planning Code requires 1 space per 500 square feet of commercial space, 17 spaces would be required for 8,500 square feet of commercial space. Thus, the Planning Code would require 149 parking spaces. The project would provide 161 parking spaces, 12 more than required.

For planning purposes, the San Francisco Department of City Planning uses 0.78 vehicles per household.⁵ At this rate, the 132 residential units would generate a need for 103 off-street parking spaces. The Manager of Victoria Mews estimates parking space use at that project at 1.3 spaces per unit.⁶ If this rate were to apply for the new project, 132 units would generate a need for 173 spaces.

A maximum of 40 vehicles would need parking spaces during the peak hour of patronage of the commercial space. As the average duration of neighborhood commercial parking is 1/2 hour, a demand of approximately 20 parking spaces would be created by the commercial space during the peak patronage hour. Ten spaces would be needed by employees driving to work in the commercial space. The other employees would walk or use public transit.

The total demand from residents, shoppers and employees would be between 133 and 203, or from 28 less to 42 more than would be provided in the proposed project. A maximum use of one space per unit is considered reasonable by the Department of City Planning. 7 This would result in a total demand for 162 spaces, or 1 more than provided.

The parking demand from neighboring uses is 32 at peak hour, which would leave 32 of the 64 parking spaces on streets bounding the project for extra project-related parking. If the worst case demand for 42-off-site spaces should occur, this would be 22 less than spaces available on streets bounding the project. As there is existing neighborhood demand for 32 spaces, 10 project-related or neighborhood cars would have to park further from the project. Space would be expected to be available within one block of the site.

The proposed development would replace 4 curb cuts with 5 curb cuts. Some of the new curb cuts would be narrower than the old curb cuts so that one additional street parking space could be provided. No off-street loading space for deliveries would be provided; none is required by the Planning Code.

Notes: Transportation

- 1. This differs from the assumption of 10% of total traffic during the peak hour because it is derived for a specified project rather than for the total traffic on the street.
- 2. Based on 4 February 1981 counts previously cited.
- 3. Assumption by traffic consultant, Richard K. Hopper, P.E.
- 4. By traffic consultant, Richard K. Hopper, on 3, 7 and 15 July 1980 and by EIR consultant, Ted Kreines, AICP, on 4 February 1981.
- 5. Ed Green, San Francisco Planning Department, telephone conversation, 3 July 1980 and Chi-Hsin Shao, San Francisco Planning Department, telephone conversation, 2 September 1980, and Department of City Planning memorandum from Dave Feltham through Alan Lubliner, Project Manager, Center City Circulation Program, to Dean Macris, Director of Planning, 10 March 1981, "The latest available census data (1970) shows that auto availability per household in San Francisco is only 0.777. . . Autos available rates are generally higher than auto ownership rates."
- 6. Bob Turner, telephone conversation, 23 March 1981.
- 7. Alan Lubliner, telephone conversation, 23 March 1981.
- 8. See Sections 152 and 153.

F. Noise Impacts

1. Construction Noise

During demolition and construction of the proposed project, construction equipment noise would be expected to temporarily increase noise levels in the project vicinity. Project sponsors (conversation with developer, 21 July 1980) have estimated demolition time at 2 to 3 months, and construction and rehabilitation at approximately 18 months. The demolition methodology has not been determined. Whether wrecking ball or cranes are used during demolition, the peak sound level generated by these construction activities would occasionally reach 90-95 dBA outside residences on 23rd St. between Kansas and Rhode Island Sts., on Rhode Island St. between 23rd and 24th Sts., and on 24th St. between Kansas and Rhode Island Sts. Typically, noise levels during this phase would range from 60-85 dBA. This sound level would be about the same as existing traffic noise levels. The project haul truck route is not known, but it would probably be along Kansas Street south to 26th Street to Army Street and then to Highway 101 south. 1 Construction would be subject to the San Francisco Noise Ordinance. 2 Section 2907 Construction Equipment states,

"It shall be unlawful for any person. . . to operate any powered construction equipment. . . if the operation of such equipment emits noise at a level in excess of 80 dBA when measured at a distance of 100 feet from such equipment. . ."

No pile driving is anticipated during construction; therefore, construction noise levels would not exceed demolition noise levels.

2. Traffic Noise

Project-induced traffic would increase surface traffic on 24th St. between Rhode Island and Kansas Sts. by approximately 40%. This would add approximately 3 dBA in traffic noise due to vehicular traffic on 24th St. However, the vehicular traffic noise from the Freeway would exceed the traffic increase due to project-induced traffic on 24th St. between Kansas and Rhode Island Sts. A 3 dBA noise change is usually perceptible; in this case Freeway noise would overshadow the change.

3. Land Use Noise Policy

The Environmental Protection Element of the City's Master Plan³ states regarding residential development in an area with an Ldn of 65 or more:

"New construction or development should generally be discouraged. If new construction or development does proceed a detailed analysis of the noise reduction requirements must be made and needed noise insulation features included in the design."

State Noise Insulation Standards for multi-family housing require that "an acoustical report be prepared showing that the interior noise level due to exterior sources will be less than CNEL 45."4

The noise level in the courtyard would be expected to be lower than the present 55 to 60 dBA because Freeway noise comes through the driveway gate and this gap would be eliminated.

Notes: Noise Impacts

- Assuming that debris would be disposed of south of the site, probably south of the county line.
- 2. City and County of San Francisco Noise and Abatement Control Ordinance No. 274-72, 4 December 1972.
- 3. The Plan for Transportation Noise Control, adopted by the San Francisco Planning Commission 19 September 1974 by Resolution 7244. The project site is mapped in this report as being in an area with a background noise level of over 65 dBA.
- 4. Charles M. Salter, 2222 Limited EIR Acoustical Report, 28 August 1980.

G. Air Quality Impacts

1. Toxic Substances From Past Site Uses

A study of toxic substances on the site shows that any toxicity problems on site would be expected to be dominated by the long history of paint manufacture. Paint manufacture generally involves 2 categories of toxic materials: volatile, organic suspension and drying agents, which evaporate rapidly; and pigments, many of them water-insoluble compounds of metals such as cadmium. Until the 1970's, mercury compounds were widely used as mold inhibitors in paint. (See further discussion of paint chemistry, page 60.)

Many volatile organic substances have noticeable odors, responsible for the characteristic odors of paint. Such odors were not generally conspicuous on the site at the time of the first site visits in May and June, 1980. Later, after paint was spilled and sprayed by vandals, paint odors became more prominent, but were presumably not associated with past spills on the site.

A variety of organic materials may be present in the air over the site as a result of evaporation of non-odorous or slowly evaporating materials in unsealed containers on the site. (See Appendix C, pages 129-136, for a list of substances found on site.) Project sponsor has removed all toxic materials from the site and disposed of them in accordance with Title 22, Division 4, of the California Administrative Code, Environmental Health. Any remaining material in the air due to these stored materials should have dissipated in a few days after their removal and would be expected to drop below detectable air concentrations by the time construction begins. (The detectable level for some organics is now in the parts per trillion range.)

One soil sample taken from the area of the site with intermittently detectable organic odors was analyzed for the presence of polychlorinated biphenyls (PCBs) which are sometimes used in paints. None were found.

Leaking electrical capacitors were observed on the site by inspectors from the California Department of Health Services. The leaking material was identified as Aroclor 1254, a commercial PCB product.

2. Toxic Substances From Demolition

It is probable that some toxic material is contained in dust and deposits on interior surfaces of some of the buildings to be demolished.

Material on the walls of one of the buildings south of the incinerator contains 60% asbestos. This friable asbestos material would present an inhalation hazard to demolition workers and persons in the neighborhood at the time of demolition. Asbestos inhalation is associated with lung and other cancers.

There is friable material, which looks as if it contains asbestos, on the ceiling and walls of parts of the building to be retained at Kansas and 24th Streets.

The 240 volt transformer in the building south of the incinerator is a dry transformer and so contains no PCBs. Other transformers on the site would need to be checked before demolition for possible PCB content, to avoid dispersal during demolition.

3. Cumulative Airborne Lead Exposure

Regulation 11 of the Bay Area Air Quality Management District (BAAQMD) provides for a ground level lead emission maximum of 0.001 mg/m³. The Federal lead standard is 0.0015 mg/m³ (24 hour average). There is evidence that lead accumulates in lung tissue when ambient concentrations are greater than 0.0013 mg/m₃.

Downtown San Francisco and San Jose have the highest lead levels in the Bay Area (see Table 8).⁵ In the period 1974-1978, the San Francisco monthly average exceeded the federal 0.0015 mg/m³ standard for 21 months. The Potrero measuring station at 900 23rd Street, closer to the project site, exceeded this standard for 2 months in the same 4-year period.⁵

TABLE 8. SAN FRANCISCO QUARTERLY AIR LEAD CONCENTRATIONS IN MILLIGRAMS PER CUBIC METER, MG/M³

· · .	939 Ellis Street Monitoring Station				900 23rd Street, Potrero Monitoring Station			
<u>Year</u>	JFM*	AMJ	JAS	OND	JFM	AMJ	JAS	OND
1976**	0.00180	0.00185	0.00175	0.00280	0.00082	0.00084	0.00082	0.00195
1977**	0.00183	0.00100	0.00108	0.00139	0.00108	0.00066	0.00068	0.00103
1978**	0.00097	0.00095	0.00199	0.00108	0.00086	0.00051	0.00083	0.00089
1979***	0.00090	0.00054	0.00059	0.00095	0.00079	0.00050	0.00033	0.00046

^{*} JFM = January, February, March, etc.

^{**} Data from Information Bulletin 4-4-79, BAAQMD, 1979.

^{***} Data from CA Air Quality Data-Summary of 1979 Gaseous and Particulate Pollutants; Teresa Lee, Public Information, BAAQMD, phone conversation 12 August 1980.

Because of the proximity of the site to the Freeway, it is possible that lead in air due to exhaust from cars using leaded gasoline and lead in the air from lead pigments used in paint could cumulatively exceed this standard even if the lead from either source alone were at a relatively safe level. The prevailing winds from the northeast tend to bring Freeway-associated air pollutants over the site. In order to ascertain whether a lead problem exists at the site, on 1 July 1980 air was sampled at 3 locations on the site: the Freeway side, the courtyard, and the side away from the Freeway. Analytic results indicate that lead concentration in all 3 samples was greater than or equal to 0.0012 mg/m³. The probable error of these measurements was of the order of ± 25%, so it can be said that the values were probably all within the federal standard but it is not certain that they were below the BAAQMD standard.

Under the relatively infrequent conditions of east wind, there is a possibility that emissions from the Potrero Power Plant could pass over the site. Trace element concentrations from this source have been estimated at $0.000001 \, \text{mg/m}^3.7$

4. Carbon Monoxide

Carbon monoxide (CO) is the air pollutant from vehicular exhaust most likely to be a problem in San Francisco. The major source of CO near the project is the James Lick Freeway (Highway 101), which is separated from the proposed project site by an approximately 15-foot strip of eucalyptus trees and by Kansas Street. According to CalTrans, Highway 101 near the proposed project is one of the most heavily travelled freeways in the Bay Area.8 This highway carries approximately 220,000 vehicles per day. 8 As project trips would be less than 1% of the Highway 101 trips, project generated air pollutants would be undetectable against the existing background of emissions from Highway 101. The BAAQMD monitoring staton at 900 23rd Street is the closest air monitoring station to the project project. During 1979, the CO standard was exceeded once (compared to twice at the 939 Ellis Street Station). Nitrogen dioxide and sulfur dioxide standards were not violated at either station.9

The BAAQMD has recommended that: "... residential development should observe an absolute minimum distance of 50 meters from the roadway edge to habitable areas (including yards) and that an optimum distance for air quality purposes should be '100 meters." The site is about 95 feet (29 meters) from the Freeway, and about 25 feet above the surface level of the Freeway.

5. Sensitive Receptors

Patients who may be particularly susceptible to the effects of inhaling toxic substances could be at San Francisco General Hospital, I block from the site, across the Freeway, on the north side of 23rd Street. The prevailing northwest winds would blow from the direction of the hospital toward the site. During winter storms, winds from the south could blow from the site area toward the Hospital. During rain any toxic materials in the air would tend to be washed out of the air. Traffic-associated air effects would be dominated by the Freeway passing along the east side of the Hospital and Potrero Avenue traffic on the west side of the Hospital.

Because of natural factors and the proximity of the Freeway, project-related emissions would probably not have an effect that could be detected at the hospital. 11

Notes: Air Quality Impacts

- 1. Letter from David L. Storm, Ph.D., Regional Administrator, Hazardous Materials Management, Department of Health Services, to Carol Roos, OER, 4 December 1980.
- 2. Microscopic analysis by Robert MacDonough, S.F. Health Department, 21 July 1980.
- 3. Friable: easily rubbed, or crumbled into powder.
- 4. 43 Federal Register 46246-46277.
- 5. Information Bulletin 4-4-79, Atmospheric Lead in the San Francisco Bay Area, 1970-1978, BAAQMD, 1979, p. 5.
- 6. Analyses performed by LFE Environmental Analysis Laboratories, Richmond, under contract to Bendix Environmental Research, Inc., EIR subcontractor.
- 7. "Public Health Impact of Emissions From Potrero Plant," Systems Applications, Inc. report SAI No. EF 79-66 prepared for PG&E, 2 May 1979.
- 8. John Gersler, CalTrans, telephone conversation, 16 June 1980.
- 9. Contaminant and Weather Summary, BAAQMD, December, 1979.
- 10. Milton Feldstein, Air Pollution Control Officer, letter to City of Walnut Creek, 24 March 1980.
- 11. Traffic counts have a probable error of about 10%. As local traffic near the project would be less than 10% of Freeway traffic, it would not have a statistically detectable air pollution impact.

H. Toxic Substances

1. Paint Chemistry

Paints consist of pigments and a medium in which they are suspended that binds the pigment to the substrate. Varnish is a liquid coating material containing a resin that dries to a hard, usually transparent, film. Though usually clear, varnishes may contain pigments. Lacquer is a varnish that solidifies by evaporation of solvents in it. Pigments may be added to lacquers. Paints, varnishes, and lacquers were all manufactured on the site.

Paint was manufactured on this site since the mid-nineteenth century, first by the Bass-Heuter Paint Company; then from 1930-1932 by Dutch Boy, Inc., and finally by National Lead Company until 1970. National lead has not retained files on this plant. According to a former plant superintendent on this site, paint, stains, lacquers and shellac were manufactured here. 2

The most probable residual problem on the site would result from metal-containing pigment contamination of the soil under the concrete that covers most of the site (in some places it is 2 feet thick). This contamination could occur through cracks in the slab. Any organic pigments present would probably be decomposed into harmless compounds by bacteria, fungi and algae in the soil. Metallic compounds used as paint pigments would tend to stay in the soil.

Appendix C, page 137, lists some of the metal compounds used as paint pigments, and gives information on their toxicity. Many paint pigments consist of mixtures; for example, cadmium yellows may contain zinc sulfide in addition to cadmium sulfide.³

During the Synanon organization's tenancy on the site, from 1972 to January of 1980, there was a ceramics workshop on site. Substances used in ceramic glazes include compounds of lead, chromium, copper and cadmium.

2. Soil Analyses

Except for a small area at the southeast corner of the block, the site is totally covered by buildings and concrete pavement. It is not known how long the site has been so covered. view of the history of over 100 years of paint manufacture on the site, there has been opportunity for soil contamination due to spillage. On the basis of paint and glaze chemistry, 17 soil samples from cores taken by the soil engineer, Warren Wong, and a surface soil sample were analyzed for one or more of the followarsenic, cadmium, chromium, copper, lead, mercury and zinc. (The probable error of the analytic values is + 5%.) The core samples were taken from 1.3 to 20.9 feet below the surface (see Appendix C, page 139 for location and numbering of the core sites), and selected to indicate whether metal levels were present in high enough concentrations to pose a possible hazard to users of the courtyard area. As most of the site is paved, other surface samples will not be accessible until removal of the cement slabs. As it is not known how much new topsoil was brought into the southeast corner of the site for plant nursery operations, analysis of soil in this area has been deferred until the general study to be made after slab removal (see Mitigation, pages 90-91.)

A comparison of normal soil concentrations to the minimum and maximum concentrations found on the site for the 7 elements for which analyses were performed can be seen in Appendix C, page 138. Arsenic was found to be within normal soil limits. Cadmium, copper and mercury are within normal limits for soil, except for the surface sample (see pages 63-64). Zinc, lead and chromium were found to be above normal in samples other than the surface sample. See Appendix C, pages 140-146, for site distribution of these 7 elements.

Lead. Movement of lead in soil is determined by the type of lead compound, the binding capacity of the soil and the acidity of the soil. Lead can be absorbed by plant roots, the degree of absorption increasing in acidic soils. Therefore, the site should be developed in such a fashion that plant roots would not reach soil with above normal lead content. The lead pigments used in paints are water insoluble, so they would be expected to move slowly through the soil, remaining over long periods. Lead has no known role in normal human physiology, and has known adverse effects ranging from anemia, abdominal pain, low blood pressure, loss of appetite and insomnia to brain effects with convulsions often terminating in death, at high concentrations.

The analytic data suggest that lead entered the soil at the north-central and northeast portions of the site. Slow movement through the soil resulted in decreasing concentrations horizontally toward the south and west sides of the block, the expected direction of ground water movement, and with increasing depth. Most of the lead appears to be within 2 feet of the surface in the area of boring No. 2 and the surface sample. The highest concentration found was 4800 ppm⁶ in the surface sample, 4600 ppm above the normal soil lead range and 4792 ppm above the low value of 5.6 ppm, in Core 1. This sample is thus 800 times the minimum level for the site, and 24 times the maximum normal soil range for lead. Maximum lead concentrations found on this site are in the low range of 1,000 to 100,000 ppm lead values found in Oakland where a lead battery manufacturing site was developed as a public park after removal of the surface soil.⁷

Zinc. Zinc was found in highest concentration on the north side of the site in the surface sample and in Core No. 2; zinc decreases moving west, south and by depth. The highest value, 4200 ppm in the surface sample, was 3950 ppm above the normal soil range and 4192 ppm above the low value of 8 ppm in Core 2 at 10.4 feet. This represents an approximately 350-fold increase over background levels on the site. Zinc distribution on the site is shown in Appendix C, page 146. Trace amounts of zinc are required in the human diet as components of cellular catalysts. Ingestion of excess zinc causes nausea and vomiting which tend to remove the material from the system. Zinc compounds are generally less toxic than lead compounds.5

The distribution pattern of chromium on the site differs from that of lead and zinc, the highest concentrations occurring in Core 8 at the southwest corner of the site, and no systematic variation of concentration with depth is evident. highest concentrations, 1000 and 900 ppm occurred in boring No. 8, at depths of 9.4 and 20.9 feet, respectively. These 2 samples are the only samples indicated as shale in the preliminary boring logs of the soil engineer. The third highest concentration, 350 ppm at 15 feet in boring No. 4, was the only sample partially composed of serpentine. Chromium is normally associated with serpentine rocks and tends to concentrate in clay.8 Those samples identified in the boring log as dominantly clayey ranged in chromium content from 140 to 260 ppm. Those samples identified as dominantly sandy ranged from 25 to 100 ppm chromium. The chromium content of the samples appears to be due to natural soil and rock composition. Residents would not come in contact with the rock under the site and soil concentrations are generally within the normal range for soil. For distribution of chromium on the site, see Appendix C, page 142.

Like zinc, trace amounts of chromium are required in the human diet. Workers in the chromate-producing industry, exposed to chromium levels substantially above those required, have an increased incidence of lung cancer. 9

Cadmium. Cadmium was found at 17 ppm in the surface sample taken near the loading dock.

Values in 3 other samples taken at depths of 1.3 to 9.4 feet were all below 1 ppm. The 1.3 foot depth sample was taken approximately 7 feet from the surface sample. Typical soil cadmium concentrations are 0.1 to 7 ppm. The background level at this site is toward the lower end of this range. It appears that cadmium at the project site is probably concentrated near the surface, where it is increased about 20-fold, and has not tended to move down For cadmium distribution on the site, see Appendix into the soil. C, page 141. Cadmium affects kidney function. Increased cadmium consumption should be avoided because many Americans are already close to the level of cadmium intake that can produce symptoms. The soil containing excess cadmium would be removed by the mitigation measure discussed on pages 90-91.

Copper. Copper was 160 ppm in the surface sample, not significantly different from 150 ppm, the top of the range of normal soil concentrations. Three other samples at depths of 1.3 to 9.4 feet ranged from 8 ppm at 9.4 feet to 79 ppm at 1.3 feet. The background level at the site is about 8 to 10 ppm copper, so copper is increased about 16-fold at the surface. A value of 79 ppm at 1.3 feet, Bore 2, suggests that copper has moved further down than cadmium but not far enough to increase concentrations on the entire area under the site. For copper distribution on the site, see Appendix C, page 143.

Mercury. Mercury was 8.6 ppm in the surface sample. The analytic method used did not distinguish between different chemical compounds containing mercury. Average soil mercury concentrations are 0.1 ppm; normal soils range up to 0.4 ppm. The background at the site is about 0.13 ppm. The surface sample is increased about 65-fold over background at the site. Three samples at depths of 1.3 to 9.4 feet ranged from 0.12 to 0.35 ppm. For site distribution of mercury, see Appendix C, page 145. Potentially hazardous mercury-bearing soil would be removed by the mitigation measure discussed on pages 90-91.

Arsenic. Arsenic values on the site were all within normal soil values. The highest value, 60 ppm, was obtained in boring No. 4 at 14 feet, in the sample containing some serpentine, suggesting that it may be associated with the natural content of the sample. The values of 11 and 13 ppm at boring No. 2 and the lack of correlation of concentration with sample depth suggest that arsenic was not spilled in the area where lead and zinc have the highest values and the arsenic may all be of natural origin.

3. Groundwater Quality

Groundwater under San Francisco is part of an aquifer extending under San Mateo County. Some communities in San Mateo County derive part of their drinking water from wells; therefore, it is theoretically possible for ground water contamination in San Francisco to affect San Mateo County drinking water.

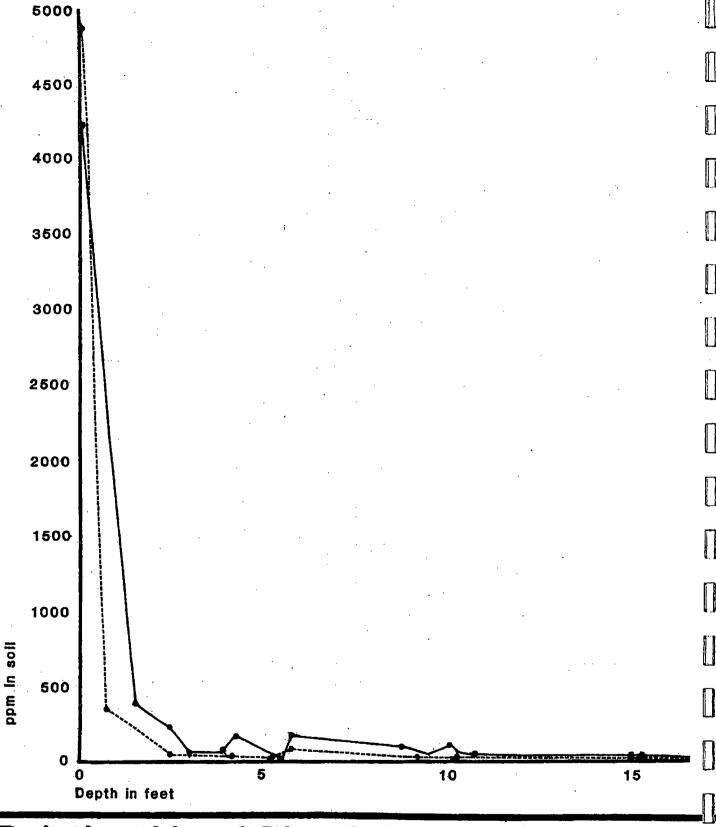
Exhibit 22, page 66, shows that lead and zinc concentrations on the site drop off rapidly with depth. At depths from 5 to 15 feet, zinc concentrations are from 19 to 120 ppm, compared to a normal soil range of up to 250 ppm (Appendix C, page 138). Groundwater would be expected to be moving west toward and under the Freeway. There is no indication from available data that zinc spilled on site is moving off-site in concentrations likely to exceed 250 ppm. Some zinc is probably moving off-site near borings 7 and 9 (Appendix C, page 146). As these amounts are below 250 ppm and zinc concentrations tend to decrease with depth (Exhibit 22, page 66), it appears improbable that zinc from this site would move far enough to reach the San Mateo County line.

Lead concentrations at 5 to 15 feet depth are 6 to 80 ppm (Appendix C, page 144), compared to a normal soil range of 1 to 200 ppm. As lead has moved less through the soil than zinc, the potential for groundwater contamination is less than that for zinc.

As indicated by Appendix C, page 140, arsenic on site is within the normal range; cadmium is above normal in the surface sample and at the low end of normal at other sampling sites (Appendix C, page 141); copper is borderline high in the surface sample and within the normal range at other sampling locations (Appendix C, page 143); and mercury is elevated at the surface sample site, at the top of the normal range at 1.3 feet in boring 2, and at typical soil concentrations at borings 4 and 8 (Appendix C, page 145). These elements are all either natural in the soil or confined to localized surface-contaminated areas. If the site is developed by the sponsor, surface-contaminated soil would be removed. This would be expected to eliminate potential future risk of ground water contamination.

4. Incinerator/Chimney

On the Rhode Island Street site frontage there is a brick incinerator which project sponsor would retain for visual and



Relationship of Zinc & Lead Concentrations to Depth

Lead

Exhibit No. 22

historic interest. The incinerator extends 20 feet above the sidewalk, 30 feet above the paved surface to the south of the incinerator, and 35 feet above its base in the building. The inside of the incinerator is coated with a black residue which is peeling in some places. Because of the potential for carcinogenic substances in such incinerator residues, and the potential for people to come in contact with this material (the incinerator is big enough to stand in — the base is 9'4" x 8' — and presently easily accessible from inside the buildings on the east side of the property), this material was analyzed for polyaromatic hydrocarbons (PAH) which were judged to be expected by toxicological consultant, Selina Bendix, Ph.D.

Analytic results on a single sample 10 indicate the presence of 400 ppm + 10% PAH. The PAHs considered most hazardous by NIOSH (National Institute for Occupational Safety and Health), benzo-alpha-pyrene, benzoepsilon-pyrene, pyrene, chrysene and anthracene, were not detectable. In the presence of so many other PAHs, 20-25 ppm of any of these 5 substances would have to be present to be detectable. These 5 PAHs are carcinogenic and at least 80 carcinogenic derivatives of these 5 compounds are known. 11 Benzo-alphapyrene is also teratogenic. 12 In view of the large number of PAHs found to be carcinogenic, it is prudent to consider all of the 400 ppm of PAHs to be carcinogenic.

5. Waste Disposal

Various chemicals related to activity on the site remained at the time of initiation of this EIR in June 1980. A list of these materials is given in Appendix C, page 129. The following materials on this list appear on the state Hazardous Waste List: 13 phosphoric acid, hydroacetic acid, methylene chloride, gasoline, ammonium nitrate, isobutanol, styrene and hydrochloric acid. The removal and disposition of these, and possibly some of the other materials on the site, is subject to the hazardous waste handling regulations in Title 22, Division 4, of

the California Administrative Code and Chapter 615 of the California Health and Safety Code. The Federal Environmental Protection Agency has designated wastes from paint manufacturing as hazardous wastes under the Resource Conservation and Recovery Act of 1976. This action was taken because of the presence of chromium, lead, mercury, nickel, antimony, cadmium, silver and various toxic organic chemicals in paint wastes.

Materials on the site classified as hazardous must be disposed of at a special hazardous waste disposal site. The Regional Water Quality Control Board has identified 5 sites in the Bay Area as hazardous waste, or Class I, disposal sites. sites are in the industrialized area along the east side of San Pablo Bay and in northern Contra Costa County. None of these sites accepts materials in drums, as found on this site. developer contracted with Zero Waste, Inc. to remove these materials in conformance with applicable regulations. Field check by the EIR consultant on 25 November 1980 indicated that most of the containers of chemicals on the site had been removed. Five 55 gallon drums labelled "Chicago Candy Co." remain. Nontoxic reusable materials from the site, remaining from the Synanon organization, have been given by project sponsor to local nonprofit organizations.

Many chemical waste disposal sites have proven to have drums of chemicals below the surface. In the absence of information about past waste disposal practices at the site, it is possible that subsurface storage tanks or other disposal exist on the site.

Along the east side of the block, under the sidewalk, there are a number of tanks, Toward the northern end of the block there are 5 metal storage tanks of 4.8 feet diameter, with manhole frames and covers in the sidewalk, spaced approximately 22 feet apart (center to center). Associated with these tanks are five 2 x 2 ft. metal covers in the sidewalk over inlet valves that connect to the subsidewalk tanks as well as pipes going through the retaining walls. The equipment these pipes connected to has been removed.

These 5 tanks were installed in 1946 pursuant to a Fire Department permit. The permit lists the contents as mineral spirits with a flash point 14 of 115°F. and tank size as 11,100 gallons. The Fire Department requires that any subsurface tank abandoned for more than 6 months either be removed or filled with sand and rendered inert. Ken Long, Fire Department Fire Protection Engineer, 15 recommends that these tanks be removed. It is likely that these tanks are now empty; however, there is a possibility of a fire hazard if vapors remain.

Further south there are more metal covers in the sidewalk and patches of newer concrete which may indicate former plate locations. Those plates that are moveable have valves under them. It seems probable that at least some of these valves still have tanks under them. It is not known whether these tanks are empty or what their past or present contents may be.

On the east side of the courtyard are two valves, labelled "gas fill cap" on the surveyor's map, 16 which may be inlets for a gasoline storage tank(s).

The valves to all the tanks are rusty and could not be moved.

Notes: Toxic Substances

- 1. Samuel R. Wilson, Director of Distribution, Coating Group, Dutch Boy, Inc., letter received 17 July 1980.
- 2. Richard J. Marklin, Pioneer City, California, telephone conversation of 17 July 1980.
- 3. Cadmium lithopone pigments contain cadmium sulfide and barium sulfide; cadmium sulfoselenides are mixtures of cadmium sulfide, cadmium selenide and selenium sulfide; and the mercadium pigments contain mercuric sulfide and cadmium sulfide. National Toxicology Program, First Annual Report on Carcinogens, July 1980, Vol. II, p. 77.
- 4. For a brief discussion of ceramic chemistry, see Demo, Allan A., "Chemistry for Potters, J. Chemical Education," 57:72-275, 1980.

- 5. NIOSH/OSHA Pocket Guide to Chemical Hazards, USDHEW and US Dept. of Labor, 1978, p. 118; Sax, N. Irving, Dangerous Properties of Industrial Materials, 5th Ed, Van Nostrand, 1979, pp. 766 et seq.
- 6. Another portion of this sample, analyzed by a different method, gave 5200 ppm.
- 7. Wesolowski, Jerome J. et al., "The Identification and Elimination of a Potential Lead Hazard in an Urban Park," Archives of Environmental Health, 34:413-418 (1979).
- 8. United States Mineral Resources, Geological Survey Professional Paper 820, 1973, p. 112.
- 9. National Toxicology Program, First Annual Report on Carcinogens, July 1980, Vol. 1, p. 22.
- 10. Analysis performed by LFE Corporation.
- 11. Listed in NIOSH Registry of Toxic Effects of Chemical Substances, 1978.
- 12. Teratogenic = causing birth defects.
- 13. California Administrative Code, Title 22, Division 4, Chapter 30, Section 66680.
- 14. Flash point = the lowest temperature at which vapors from a volatile liquid will ignite momentarily when a small flame is applied under specified test conditions; an indication of degree of fire hazard (the higher the flash point, the lower the hazard).
- 15. Telephone conversation, 25 November 1980.
- 16. Exhibit 3, page 6; larger scale drawing available for public review at the Department of City Planning, 45 Hyde Street, Room 319.

I. Energy

1. Building Materials

The energy consumed for heating, hot water, lighting, etc. during the lifetime operation of buildings is greater than the energy required to make building materials, transport them to the site and construct a building. The energy required for building materials is not negligible, however, as can be seen from the following list. The use of aluminum and copper increases the energy intensiveness of construction.

TABLE 9: ENERGY INTENSIVENESS OF TYPICAL BUILDING MATERIALS

	Energy to Fabricate			
Material	BTU* per 1b.	BTU* per unit		
Aluminum	41,000			
Ceiling materials	1,500			
Concrete	400			
Concrete blocks (8"x8"x16")		15,200/block		
Copper	40,000			
Drywall	2,200			
Glass	12,600			
Paint	4,100	,		
Roofing		6,900/sq. ft.		
Steel	13,800			
Vinyl tile	8,000			

^{*} BTU = British Thermal Unit; a standard unit for measuring heat, about equal to that from burning one standard wooden kitchen match. Technically, it is the quantity of heat required to raise the temperature of one pound of water 1° Fahrenheit at sea level.

Source: Kegel, Robert A., "The Energy Intensity of Building Materials," Heating/Piping/Air Conditioning, June 1975, pp. 37-41.

Construction energy consumption for the proposed project is estimated to be the equivalent of 11 million kilowatt hours (kwh) of electricity, based on an estimated energy consumption of 9.3 million kwh per \$10 million of construction cost. The estimated construction cost for the proposed project is approximately \$11.8 million

2. Operating Energy Consumption

If natural gas is used for heating hot water, cooking and space heating, each unit would use about 100 therms (10 million BTU) of gas per month and 300 kwh of electricity per month, or about 13,000 therms of gas and 40,000 kwh of electricity per month for 132 units.

If electricity is used for other purposes, approximately 3 times as much fossil fuel would be used as in the direct burning of natural gas. Use of electricity for heating hot water and space heating would increase electrical consumption to about 1,000 kwh/mo./unit, or 137,000 kwh/ no. for the whole project, and would decrease gas consumption to 25-40 therms/mo./unit, or 3,400 - 5,500 therms/ mo.for the project.² Electrical space heating and cooking would be approximately 2.7 times as expensive as gas. Assuming that electricity would not be used for space heating, the connected load would be approximately 300 kilowatts.

Assuming use of gas for water and space heating and for cooking, electricity would be mainly used for lighting. Peaks would be expected in the morning, while people were getting ready to go to school and work, and in the evening, between 5 and 11 p.m., when all members of the household would tend to be home using appliances and lights. The evening peak would tend to be larger than the morning peak. Electrical energy use would peak during the short days of winter, when lights would be on longer, and would be lowest during the long days of summer.

Natural gas load distribution curves would be similar to those projected for Ocean Beach Park Estates, a larger combined

residential-commercial project.³ The summer minimum would occur in the middle of the day when people would be least likely to be home and the winter minimum would occur in the afternoon, the warmest part of the day. The winter maximum would occur in the morning due to space-heating to day temperatures. Gas consumption would peak in the months of December and January, when the most heating would be required, and would be at a minimum in September and October which are usually the warmest months in San Francisco.

Energy Conservation

Air Quality. The more carefully a building is constructed, with attention paid to be fit of windows and doors, the smaller the exchange of air through cracks and the lower the level of energy requirements for heating and cooling, if any. In order to minimize noise intrusion from freeway traffic, windows on the west side are expected to be double pane glass, which would also decrease heating energy use (see Mitigation Chapter for further discussion of double pane glass).

As building air leakage is reduced, exposure of occupants to gases given off by building materials increases. This is of particular concern in the cases of radon and formaldehyde. Radon is a radioactive gas naturally given off in varying amounts by all building materials. Radon concentrations increase detectably in buildings with ventilation rates below 0.3 air changes per hour. Detailed information on the potential hazard of increased radon exposure in energy-efficient buildings is not available. This matter is being investigated by the Federal Department of Energy (DOE). Current belief is that "routine" measures to increase energy efficiency are not increasing radon exposure enough to have a detectable effect.

Formaldehyde is a carcinogenic substance used in the manufacture of resins, wall board, and insulation. Part of the formaldehyde remains unreacted when these materials are made and

slowly diffuses out of the materials. In relatively air-tight homes, the formaldehyde concentration may become high enough to produce irritant effects on the occupants. Formaldehyde is an irritant to the respiratory tract and eyes at 0.01 ppm⁵ and to skin at 0.15 ppm.⁶ The NIOSH recommended standard for occupational exposure to formaldehyde is 1.2 ppm.⁷ The European indoor air standard is about 0.1 ppm. It has been found that energy-efficient buildings, with reduced air infiltration and low ventilation rates of or below 0.3 air changes per hour, exceed the European standard when outdoor formaldehyde concentrations are 0.016 ppm.⁸

Solar Energy. Use of solar energy is under consideration by project sponsor, see page 94. Use of solar energy for heating water would decrease demand for nonrenewable energy sources. Current cost for solar water heaters on single family homes is about \$3,000 per unit installed. Solar collectors for a recently built San Francisco apartment building with a similar number of units to the proposed project cost about \$120,000 and are expected to provide 60% of the hot water supply. Cost for the proposed project would be expected to be similar. Approximately 35-60 square feet of collector per dwelling unit would be required, 2 or 5,000-8,000 square feet for the whole project.

Fuel savings could more than offset the cost of solar panels during the lifetime of the project; the initial costs would become part of the purchase cost of the units. Payback time due to reduced fuel costs would be 5-7 years. Tax benefits for solar installations include tax credits for a portion of system costs and accelerated depreciation.

Solar cells have the advantages of producing electricity and not involving use of heat transfer liquids which can leak. Their disadvantage is expense, partially due to their low efficiency (maximum conversion of 15% of solar energy to electricity). Some solar cells involve the use of cadmium compounds and consequent risk of exposure to a toxic material of the workers who make them. Some firms hope to bring the installed cost from the present

approximately \$10 per watt to \$0.50 per watt by 1990. The Department of Energy has a National Photovoltaic Program aimed at production of low cost, high volume solar cells. Solar cells are not an economically viable option for the proposed project now, but may become cheap enough for retrofit within the next decade.

Wind Energy. Wind power, independent or in combination with solar units is another inexhaustable energy source. In 1977, it was estimated that "the minimum cost of a domestic plant would be about \$2,500 and would supply approximately 1/4 of the energy demand of the entire household. An installation adequate to supply an average household would cost in the vicinity of \$10,000." A wind speed of at least 10 mph is needed for wind power generation. A 60 to 80 feet tower 14 is required, depending on upwind obstructions. The blades of a 10 kw windmill would have a spread of 30 to 35 feet. 15 A \$20,000 wind generator in an average wind of 10 mph would produce 22,000 kwh/yr. or 4% of the project's annual energy consumption.

Site specific wind speed records of several years' duration are required in order to calculate the potential for wind energy generation at any particular site. Such information is not available for the project site. A wind speed recorder could be placed on the roof of the project, should it be built, in order to obtain information for a future decision on the feasibility of windpower generation on the site. Any future decision on installation of 1 or more windpower generators would also have to take into account windmill noise generation, community response to visual impact of wind generators and the economics of windpower generation.

Notes: Energy

- 1. City and County of San Francisco, FEIR, Ocean Beach Park Estates, EE 78.178, 30 August 1979, p. 125, adjusted for construction cost inflation.
- 2. Robert Tucker, Dealer Representative, PG&E, telephone conversation, 19 August 1980.
- 3. City and County of San Francisco, EE 78.178, FEIR, Figure No. 24, page 127, 30 August 1979.
- 4. Hollowell, Craig D., et al., "Radon-222 in Energy Efficient Buildings," American Nuclear Soc. Mtg. 11-16 November 1979.
- 5. California State Energy Resources Conservation and Development Commission, EDIR Residential Insulation Program, 22 February 1978, p. 60.
- 6. NIOSH Registry of Toxic Effects of Chemical Substances, 1978, p. 587.
- 7. NIOSH, op. cit.
- 8. Lin, Chin-I, et al., "Indoor/Outdoor Measurements of Formal-dehyde and Total Aldehydes, 178th, Nat'l Mtg. Amer. Chem. Soc., 9-14 September 1979.
- 9. John Burton, Integral Design, "Low Cost integral Solar Water Heaters," No. Cal. Solar Energy Assn. Newsletter, p. 7, September 1980.
- 10. Solar Center, San Francisco, telephone conversation, 28 August 1980.
- 11. Bryan Kiefer, Jones & Kiefer Construction Co., San Francisco, telephone conversation, 28 August 1980.

- 12. Tim Duane, Intern, PG&E, telephone conversation, 28 August 1980.
- 13. Senior Seminar, Environmental Studies Group Major, UC Berkeley, "Energy in the Bay Area." June 1977, p. 157.
- 14. Windmills are not subject to height limits per section 260(b)1(A) of the Planning Code.
- 15. Neil Holbrook, Power Towers, Inc., Pleasant Hill, telephone conversation of 9 February 1981.

J. Community Services

1. Water and Wastewater

According to the most recent San Francisco Water Department annual report, 1 City-wide residential water consumption is 35.8 million gallons per day (mgd). Assuming a population of 675,000, 2 this means an average of 55 gallons per day (gpd) per person.

Assuming 2.1 persons per unit, a 132 unit development would consume 15,200 gpd, or 0.0004% of San Francisco's annual residential water consumption. The water supply in the area would be adequate for the project.³

Sewage from the site drains to the Southeast Water Pollution Control Plant (SEWPCP). There are 12 inch diameter collector sewers on the west, north and east sides of the site and a 16 inch sewer on the south side. These sewers drain to a larger sewer in Kansas Street, a few feet west of the collector sewer.⁴ These sewers could accommodate the wastewater from the proposed project.

Wastewater flows are typically 70% of water use.⁵ In San Francisco, where lots tend to be smaller than elsewhere in the Bay Area, and a smaller percentage of water is used for landscape irrigation, the figure is 90%. Expected flow from 132 units would

be 0.90 x 15,200 or 13,700 gpd. The SEWPCP has a capacity of 70 mgd, and receives an average of 22 mgd in dry weather.⁶ The flow from this project would constitute 0.06% of the dry weather flow to the plant.

The effluent from the SEWPCP does not meet applicable standards. Improvements are under construction which will bring the treatment level to secondary treatment and increase the capacity of the plant. This is one of many projects implementing the San Francisco Wastewater Management Master Plan. Implementation of this entire plan will be required to bring the City into compliance with the Federal Clean Water Act.

2. Fire and Police Services

According to Chief Robert Rose (meeting on 2 July 1980), water supply, hydrant location and fire equipment access are adequate for the proposed project at the proposed site.

Police department records of incidents "in the area of Kansas Street and Rhode Island between 23rd and 24th Streets" are as follows:

TABLE 10: CRIME INCIDENCE IN PROJECT AREA

Type of Crime	1978	<u> 1979</u>	1980 to July 1980
Auto Theft or Burglary	10	15	8
Robbery	0 .	1	2
Residential Burglary	4	1	1
Battery	1	1	0
Petty Theft	0	1	0
Kidnapping	0	1	0

Source: Letter from Officer Robert Baldocci, #441, of 3 July 1980.

Officer Alfred Baldocci of the Potrero Police Station states that, "As you can see from this report, the incidence of crime in the area is minimal and this picture should change for the better with the increase of public activity in the area... don't feel at this time that a development of this nature will cause any particular problem for our department's operation."

3. Solid Waste

Assuming 2.5 pounds of solid waste production per person per day, 9 and 2.1 persons per unit, 132 units would produce about 700 pounds of solid wastes per day or 0.023% of the 1500 tons produced daily by the City as a whole. Household solid wastes produced by the project would be disposed of at the landfill site in Mountain View, Santa Clara County. The capacity of this site is expected to be exhausted by about 1983 and no alternative future method for disposal of San Francisco's solid waste has yet been selected. For a discussion of alternatives under consideration, see the Final EIR for a "Resource Conversion Center, Brisbane/San Francisco, California," City of Brisbane, 1980.10

4. Schools

Children residing on the site would attend the following schools: Elementary (grades K-5) students would walk 2 blocks to Starr King at 1215 Carolina Street; middle school (grades 6-8) students would walk 4 blocks to Potrero Hill at 655 De Haro; and high school students would go approximately 1-1/2 miles to Mission High at 3750 18th Street. The above school assignments are effective through 30 June 1981.11 The School District as a whole could accommodate students from the proposed project.12

Notes: Community Services

- 1. Report for Fiscal Year 1978-9, San Francisco Water Department, 1979, page 11.
- 2. Preliminary report on "Population and Housing in the San Francisco Bay Region 1979-1980," First Draft, ABAG, 4 February 1981.
- 3. Jack Kenck, City Distribution Manager, San Francisco Water Department, telephone conversation, 16 June 1980.
- 4. Letter from Mervin Francies, Engineering Associate II, San Francisco Wastewater Program, received 3 July 1980.
- 5. Metcalf & Eddy, Inc., Wastewater Engineering, 2nd Ed., McGraw Hill, 1979, page 21.
- 6. FEIR, Southeast Treatment Plant Dry-Weather Expansion & Interim Point Discharge, City and County of San Francisco, April 1975, p. IV-1.
- 7. Secondary treatment is the treatment of wastewater by a biological or physical chemical process, after primary treatment. It provides approximately 90% removal of BOD. BOD = an abbreviation for biochemical oxygen demand, a standard measure of water and wastewater quality.
- 8. Letter from Officer Robert Baldocci, #441, of 3 July 1980.
- 9. Solid Waste Generation Factors in California, Technical Information Services, Bulletin #2, California Solid Waste Management Board, 8 July 1974.
- 10. Available for public review at the Department of City Planning, Office of Environmental Review, 45 Hyde Street, file number EE 79.307/NLA.

- 11. Edward R. Schulman, Program Manager, School Operations, San Francisco Unified School District, letter received 3 July 1980.
- 12. Schulman, E.R., telephone conversation, 26 June 1980.

K. Earthquake Effects

Retained Structures. The 5-story building at the corner of Kansas and 24th Streets and the brick facades designated for retention would be examined by a structural engineer, and his/her recommendations would be followed in project design (see Mitigation Chapter, page 95).

Seismic Safety. A site specific geotechnical analysis, as required by the Seismic Safety Element of the General Plan for the City and County of San Francisco, has been made by Warren Wong of Geo/Resources (California License No. CE 25777). Implementation of the foundation recommendations may become a condition for approval by the Planning Commission or the Bureau of Building Inspection.

Retaining Wall. Along the eastern property line there is a 10 to 13 foot tall retaining wall. In the sidewalk area with asphalt paving, east of the retaining wall and south of the auto repair building, there is evidence of subsidence and slippage toward the retaining wall suggesting some instability in this area. Where it can be seen, this retaining wall is of varied design ranging from 4 to 10 inch thick concrete to 12 inch thick wood. It is likely that the wooden sections, at least, do not meet current City building codes. The integrity of the water, sewer, natural gas, electrical and telephone lines under Rhode Island Street is dependent on the structural stability of this retaining wall. Construction is planned up to these walls so that below sidewalk grade portions and foundations of buildings on the east side of the proposed project would depend on the integrity of this retaining wall.

L. Plants

Landscaping in the courtyard would not be visible from the sidewalk. As designed, project buildings would come to the sidewalk, leaving no space for planting. One street tree would be planted for each 20 feet of street frontage (over 60 trees), as required by the Planning Code. Existing shrubs and trees on the east side of Kansas Street would screen much of the view of the Freeway.

M. Short-Term Uses of the Environment vs. the Maintenance of Long-Term Productivity

Development of the project now would commit the site to residential use and would probably constrain future decisions about use of the site for at least 50 years. In view of the current need for housing in San Francisco and the probable long-term nature of this need, it appears reasonable to make a commitment to housing use rather than leave future options open.

If the 1980 increase of 15% in San Francisco construction costs persists in future years, then it will become progressively more difficult to finance housing construction and to find buyers who can afford new housing. If this site is to be committed to a housing development of some type, the sooner this is done, the lower the cost of the completed units and the greater the number of households that could afford them.

The developer wishes to pursue the proposed project at this time because costs for construction and financing of such developments may increase at a faster rate than prospective buyers' incomes.

N. Growth-Inducing Impact

The proposed project would add about 275 residents on the now vacant site. The project would meet existing housing needs rather than attracting new City residents who would otherwise not consider moving into the City.

Most of the new residents would probably be upper middle income persons because only these persons could afford the units. Most of these people would hold their jobs whether new housing was available in San Francisco or not; however, there is increasing evidence that people are reluctant to take jobs in San Francisco because of the difficulty in obtaining housing. The availability of sufficient housing to meet San Francisco demand would probably reverse the current trend to population loss. This project alone would not have a noticeable effect on San Francisco's population.

Notes: Growth-Inducing Impact

- 1. Bay Area Council, "Housing, the Bay Area's Challenge of the '80s," December 1980.
- 2. ABAG, "Population and Housing in the San Francisco Bay Region 1970-1980," First Preliminary Draft, 4 February 1981.

O. Neighborhood Concerns

Neighborhood organizations were contacted regarding the project. These organizations appear to be divided among those who view the project as a stabilizing influence on the neighborhood, those who think the project would increase housing costs in the area and those with environmental concerns.

One view is that the project's housing costs would be too expensive for most current residents of the community² and that most of the units would be too small for the large families who currently live in the area.³ There is concern that if the project is built, housing costs in the community would rise more rapidly than without the project. As housing costs increase it would be more difficult for existing residents to buy or rent housing in the community.⁴ Some feel that low and moderate income housing should be built on this site.⁵ Some think that the neighborhood already has enough low income housing and that government financial assistance for low and moderate income housing should go toward rehabilitation of abandoned units in the housing projects near the site.⁶

Other neighborhood groups feel that the project would lead to reinvestment in and revitalization of the neighborhood and add people and security to a block subject to vandalism.

There is concern that the project does not include enough open space for project residents, that the project would be too dense and out of scale with the existing community of mostly two-family units. Groups with environmental concerns think that noise from the James Lick Freeway would create unfavorable living conditions in the project, while others are concerned that chemicals from the site's former use for paint manufacturing may be harmful. 12

Notes: Neighborhood Concerns

1. Potrero Hills League of Active Neighbors (PLAN), discussion with Maria Vermiglio, President: 23 June 1980.

Potrero Hills Community Development Corporation (CDC), discussion with Jim Queen, President and Brian Chekowski, Counsel, 7 July 1980.

Potrero Hills Boosters and Merchants Association (PHB&MA), discussion with Mike Krivit, President, 3 July 1980 and appearance before PHB&MA Board, 29 July 1980.

Potrero Hills Homeowners and Renters Association (PHH&RA), discussion with Joan Tricamo, 3 July 1980.

Potrero Hill Advisory Committee (PHAC), special meeting 8 July 1980.

Contacted by Kreines & Kreines, EIR consultants.

- 2. PLAN and CDC.
- 3. PLAN.
- 4. CDC.
- 5. CDC.
- 6. PHB&MA.
- 7. PHB&MA & PHH&RA.
- 8. PHB&MA.
- 9. PHAC.
- 10. PLAN.
- 11. PHH&RA
- 12. PHAC

V. MITIGATION MEASURES

Mitigation measures described below may be part of the project as proposed by the developer or may either be under consideration or rejected by the developer, as noted. Those measures not part of the project could be required as conditions of project approval.

A. Urban Design

Impact. The mass and design of the project would not match surrounding buildings, particularly along Kansas Street.

Mitigation. The developer would consider making changes to the existing plan for the Kansas Street units to bring them into greater conformity with the prevailing character of development on Potrero Hill. The developer would consider continuing the peaked roof design of the rest of the project along Kansas Street, where the proposed structure would otherwise present a solid, unbroken facade. A decision would be made by the developer after consultation with staff of the Department of City Planning, the noise consultant and the project architect, and before completion of construction plans.

The scale of the rehabilitated warehouse building would be mitigated by attention to creation of pedestrian-scale visual interest in the design of the commercial space on the first floor. Placement of bus shelters on sidewalks bounding the project is under consideration. Submission of scale drawings for treatment of the new facades of the warehouse building and of adjacent sidewalk could be required by the Planning Commission as a condition of the Conditional Use Permit. Submission of plans for sign control could also be required.

B. Historic Structures

Impact. Development of the site could result in loss of the visually prominent chimney on Rhode Island which is listed in the Department of City Planning 1976 Architectural Inventory.

Mitigation. Project sponsor would retain the chimney.

C. Housing Cost

Impact. The new housing prices could price some people out of the market for the project.

Mitigation. Remodeling of the building at Kansas and 24th Sts. would lower the cost per unit in the development below the cost of all new construction. More people would be able to afford the units at the lower prices (note that all new market rate housing is relatively expensive).

D. Noise

Impact. Freeway noise could disturb project occupants.

Mitigation. State regulations (Title 25, California Administrative Code) require that window and wall construction provide for noise reduction to mitigate the existing freeway traffic noise impacts on the west side of the project. The interior noise level must be limited to a maximum CNEL of 45 dB. Acoustical analysis of the proposed building will be performed to determine the extent of the noise control that would be necessary. Preliminary calculations indicate that windows in those walls with maximum outdoor noise exposure would require double glazing or laminated acoustical glazing with an STC1 rating of about 30. The developers have stated that project construction would conform to the Noise Insulation Standards.

The effect of construction noise would be controlled by the provisions of the San Francisco Noise Ordinance². The project sponsor must comply with this ordinance.

In accordance with Section 2908 of the San Francisco Noise Ordinance, no construction would take place between the hours of 8:00 p.m. and 7:00 a.m.³

E. Toxic Substances

<u>Impact</u>. Potentially toxic dust could drift off site during demolition.

Mitigation. In order to avoid disperson of potentially toxic dust through the neighborhood, Bendix Environmental Research, Inc., toxic materials consultant for this EIR, recommends that continuous water spray be used during demolition to achieve adequate wetting to prevent dust emissions, as required for demolition of buildings containing asbestos by 39 CFR 1910.1001. Project sponsor would consider implementation of this measure. The decision will be made after consultation with the demolition contractor and before commencement of demolition. This could be required by the City Planning Commission as a condition of the Conditional Use Authorization for the PUD.

The late Robert MacDonough, Environmental Health Inspector, San Francisco Department of Public Health, concurred in this recommendation and further recommended that any dusty or friable material be bagged and tied to prevent toxic dust dispersion. 4 Project sponsor is considering this measure and would decide after talking to the demolition contractor about feasibility and cost and before authorizing demolition.

Demolition of the asbestos-containing building south of the incinerator must comply with Section 1919.1001 of the Occupational Safety and Health Administration's general industry standards, Part 1901, Title 9 of the Code of Federal Regulations, which provides that employees "engaging in the...demolition of pipes, structures, or equipment covered or insulated with asbestos and in the removal or demolition of asbestos insulation or coverings shall be provided with respiratory equipment...and

with special clothing..." The section also provides that when asbestos is removed it must be kept wet "to prevent the emission of airborne fibers." In practice this is usually achieved by use of a water spray during demolition. 6 Project sponsor would comply with applicable regulations regarding asbestos during site preparation, demolition and remodelling phases of the project.

<u>Impact</u>. Buildings to be retained may have asbestos-containing interior finishes.

Mitigation. Project sponsor would have the buildings to be retained checked. If interior finishes contain more than 1% asbestos, sponsor would have the material sealed or removed during renovation and prior to occupancy. Any removal would be done in a fashion to avoid exposure of workers or future occupants to asbestos containing dust.7

Impact. Occupants might breathe lead concentrations detrimental
to their health.

Mitigation. The highest risk of lead pollution to project residents would be from the freeway west of the site. This risk would be mitigated by installation of windows that do not open in units along Kansas Street (the west side of the project). These units would have mechanical ventilation systems. The air intake for this ventilation system would be located as far east on the proposed project block and as high up as is feasible. The developer would implement this measure as part of the project.

Impact. The peeling, black, potentially carcinogenic layer inside the incinerator could be a source of human exposure to PAHs (poly-aromatic hydrocarbons); surface soil could be contaminated by PAHs.

Mitigation. Project sponsor would board up access to the incinerator to prevent contact by project residents with hazardous PAH-containing materials. The EIR consultant, Selina Bendix, Ph.D., has recommended 3 safety measures: 1) seal the opening at base of incinerator; 2) seal the top of the chimney; and 3) remove enough metal rungs on the side of the chimney to prevent access and/or injury by and/or to unauthorized persons. Dr. Ephraim Kahn of the California Department of Health Services concurs in these recommendations.8

The State Department of Health Services has indicated concern⁵ that the exposed soil in the southeast corner of the site may have been subject to PAH fallout from smoke from the chimney. Before excavation this soil would be tested for PAHs and if any are found, disposition of the soil would be discussed with staff of the Hazardous Materials Section.

Impact. According to the State Department of Health Services,⁵ the upper levels of the building in the northwest corner of the site were used to mix and store dry paint ingredients which could pose a hazard during demolition.

<u>Mitigation</u>. Project sponsors would have the area inspected for residual paint ingredients and, if found, have these materials removed prior to demolition.

Impact. The distribution pattern of high lead and zinc values in soil on the site is not known. Some soil samples have excessive levels of cadmium and mercury. Contact with these soils could be hazardous.

<u>Mitigation</u>. After removal of the existing concrete floor slabs, project sponsor, in consultation with the State Department of Health Services, would have analyses made to determine the distribution of high lead, zinc, cadmium and mercury values on the site, and 1 to 2 feet of top soil in the contaminated area

would be removed and deposited in a hazardous waste dump if necessary.

Measures designed to mitigate lead and zinc exposure would also mitigate cadmium and mercury exposure unless differences in distribution are shown by further soil analysis. The State Department of Health would monitor analyses and advise as to appropriate mitigation measures, which will be followed by project sponsor.

The soil in the depressed area of the concrete floor of the 5 story building could contain toxic materials. This area would be subjected to chemical analysis and would be removed or sealed, if necessary and as appropriate, on the basis of these tests before the area is filled in to make it level with the rest of the basement parking area. Should any toxic material be found on analysis, the Hazardous Waste Section of the State Department of Health would be consulted before decision on disposition.

<u>Impact</u>. The containers of chemicals on the site pose a hazard of fire and poisoning. 9 The site is not vandal-proof.

<u>Mitigation</u>. The project sponsor has arranged for removal of hazardous substances from the site, in accordance with applicable regulations⁸ and in consultation with the State Department of Health Services.

Impact. Abandoned tanks beneath the sidewalk east of the site may contain hazardous materials.

Mitigation. In order to mitigate potential impact on construction workers, neighbors, and future occupants from toxic chemicals beneath the concrete slabs which now cover most of the site surface, the City Planning Commission or other City agency having approval power for this project would require that:

The subsidewalk tanks adjacent to the east side of the property and any other tanks on or adjacent to the site be opened, aired out, and any contents analyzed and disposed of according to applicable laws and regulations after consultation with the State Department of Health. The tanks would then be removed, as recommended by the Fire Department, to eliminate any possibility of hazard to construction workers or future project residents. Such removal would also permit removal of pipes from the tanks penetrating the retaining wall; these pipes would otherwise interfere with work to strengthen or replace the retaining wall. Removal would be done in such manner as not to undermine the street or substreet utilities. The holes left by the tanks would be backfilled in accordance with recommendations of a licensed engineer.

Should it prove to be technically inadvisable to remove the tanks, they would be filled with sand and otherwise rendered inert to the satisfaction of the Fire Department.

and, b) If any subsurface storage containers which appear to contain chemical wastes should be encountered during excavation on the site, construction would be halted pending investigation by the Hazardous Waste Division of the State Dept. of Health Services.

<u>Impact</u>. Electrical equipment containing PCBs is a hazard for persons working on the site.

Mitigation. Project sponsor would require the demolition contractor to check the site for transformers and capacitors containing fluid. The contents would be analyzed for the presence of PCBs. Any PCBs found would be disposed of in accordance with applicable regulations after consultation with the State Dept. of Health Services. All spilled and leaked PCB-containing material would be removed and appropriately disposed of prior to initiation of demolition in affected areas.

F. Energy

<u>Impact</u>. The production of aluminum and copper is energy intensive.

Mitigation. Project sponsor will instruct the project architect to specify materials less energy intensive than aluminum and copper wherever possible.

Impact. Heat gain and loss through windows often determines the heating and cooling needs of a building.

Mitigation. Windows on the west side of the proposed project would be double pane glass which would decrease heat loss from units during colder months. Heating season energy savings from use of double pane glass are given in the following table. Because these windows would not be openable, a mechanical ventilation system would be required. The energy required to operate this ventilation system would partially offset the energy savings from the double pane glass.

TABLE 11: SAN FRANCISCO HEAT LOSS THROUGH SINGLE- AND DOUBLE-GLAZED WINDOWS

	Heat Loss in sq. ft.			
Window Orientation	Single-Pane	Double-Pane	Reduction in Heat Transfer	
North	49,600	25,600	24,000	
East and West	43,900	23,700	20,200	
South	41,700	23,200	18,500	

Source: Adapted by Bendix Environmental Research, Inc. from Dubin, Fred S. and Long, Chalmers, G., "Energy Conservation Standards for Building Design, Construction, and Operation." McGraw-Hill, 1978, p. 123.

See definition of BTU on page 71.

Impact. Energy used by the project would deplete nonrenewable
resources.

Mitigation. Project sponsor would instruct the project architect to investigate use of solar panels for hot water heating on south facing roof slopes. Any decision on the use of solar collectors would be made on the basis of cost effectiveness prior to detailed roof and plumbing design.

Before making a decision on the use of solar collectors, project sponsor or architect would contact the State Solar Business Office in Sacramento regarding experience with solar design of other multifamily projects or instruct project architect to do so.

If project sponsor should decide not to use solar collectors, he would instruct project architect to consider the following measures:

- 1. Incorporation of passive design features to minimize summer solar heat gain and maximize winter solar heating.
- 2. Design of as much of the roof areas as possible, within Planning Code height limits, at an angle appropriate for future solar collector installation.
- 3. Design of roofs with access for future solar collector installation and maintenance.
- 4. Design of buildings to take the weight of future solar panels.
- 5. Specification of plumbing connections appropriate for future solar installation. (As now required in Santa Clara County). 10
- 6. Provision of space for a solar heat transmission fluid storage tank and controls or installation of same initially. (The collectors, not the tank and controls, are the most expensive portion of a solar installation.)

<u>Impact</u>. Spare heating and cooling use nonrenewable energy sources.

Mitigation. Project design will conform to the California energy insulation standards (Title 24, California Administrative Code) for new buildings. In 1976 it was calculated that the payback period for the required insulation was 7-10 years. 11 All hot water pipes will be insulated with a nonasbestos-containing material to reduce heat loss.

<u>Impact</u>. Low ventilation rates designed to reduce energy consumption allow buildup of toxic gases in building air.

Mitigation. Ventilation system(s) for the ventilated portion of the project on Kansas St. would be designed to provide no less than 0.5 air changes per hour so that indoor concentrations of any potentially toxic gaseous materials would be expected to be no greater than levels in older, less airtight, buildings.

Impact. Developments in which users are not individually billed for utilities tend to have higher energy and other resource consumption than those with individual meters.

Mitigation. Project sponsor would consider individual metering of water, gas and electricity for the units. The decision would be made before detailed plumbing plans are completed.

G. Structural Safety

Impact. Structures designated for retention may not be earthquake safe.

Migitation. The buildings and walls designated for retention, shown on Exhibit No. 3, page 6, were built prior to the existence of present seismic safety provisions in the San Francisco Building Code, and their potential stability in an earthquake is unknown. The Bureau of Building Inspection would require that these walls and the 5-story building be brought into conformity with present Building Code provisions, if necessary.

Impact. Movement of the retaining wall could endanger structures next to the wall, sidewalk safety, and utilities in Rhode Island Street.

<u>Mitigation</u>. Project sponsor would retain a California licensed engineer to examine the retaining wall, consult with the Department of Public Works, and make recommendations regarding strengthening or replacement of the retaining wall, if needed.

Should replacement of any part of the wall be necessary, this would be done with care to maintain the integrity of Rhode Island Street and its subsurface utilities. 12

The Department of Public Works would review the disposition of the retaining wall, and structural engineers in the Bureau of Building Inspection would review design of buildings against the wall before issuance of building permits.

Notes: Mitigation Measures

- 1. STC = sound transmission coefficient, the ratio of transmitted to incident sound energy, a means of characterizing the noise insulation characteristics of materials.
- 2. Charles M. Salter, P.E., 2222 Ltd. EIR Acoustical Report, 28 August 1980.
- 3. Technically, the Ordinance prohibits activities producing more than 5 dBA above ambient noise levels at the nearest property line. In some cases the Dept. of Public Works issues special permits for night construction. This would be unlikely in a residential area.
- Telephone conversation with EIR subconsultant Selina Bendix,
 June 1980.

- 5. Dr. David J. Storm, Regional Administrator of the Hazardous Materials Management Section of the State Dept. of Health Services, in a letter to the Dept. of City Planning, Office of Environmental Review, dated 4 December 1980.
- 6. Applicable procedures are in a State Health memo of September 1977, available for public review at the Department's Office of Environmental Review, 45 Hyde Street, Room 319.
- 7. Applicable regulations are found in Title 8 of the California Administrative Code, BAAQMD regulations and the previously cited OSHA regulations.
- 8. Chief, Epidemiology Section, telephone conversation with Selina Bendix, 1 August 1980.
- 9. Drums of possibly hazardous materials and pesticide containers were absent from the site at the time of EIR consultant field check on 25 November 1980.
- 10. Ordinance Requiring Solar Hot Water Heater for Residential Domestic Use, NS1208, adopted 23 June 1980, effective 1 February 1981. Bob Sturdivant, Senior Planner, Santa Clara County, telephone conversation, 18 February 1981.
- 11. California Department of Housing and Community Development, Division of Codes and Standards, "Energy Design Manual for Residential Buildings," 19 April 1976, Preface. San Francisco would be expected to be at the long end of this range due to its relatively even temperature compared to the rest of the state. Energy costs have probably increased more rapidly than estimated in 1976, so the payback period would be expected to be less than 10 years.
- 12. Cormac Brady, Senior Mechanical Engineer, Department of Public Works, has indicated that replacement of the retaining wall would have to be done carefully to avoid damage to sidewalk and street. Telephone conversation with EIR subconsultant, Selina Bendix, of 25 November 1980.

VI. ADVERSE ENVIRONMENTAL EFFECTS WHICH CANNOT BE AVOIDED IF THE PROPOSAL IS IMPLEMENTED

A. Land Use

Rezoning would increase the permitted density on the site.

B. Noise

During project demolition and construction phases which are expected to total about 21 months, there would be a temporary increase in noise levels in the project vicinity.

C. Energy

Operation of the proposed 132 dwelling units and 8,500 sq. ft. of commercial space on a site that currently uses no energy would increase consumption of electricity and natural gas by about 14,000 therms of gas per month and 41,000 kwh of electricity per month.

D. Air Quality

The proposed project would be 71 meters closer to the freeway than the distance recommended by the Bay Area Air Quality Management District for residential development.

E. Toxic Substances

Occupants of the proposed project may come in contact with hazardous polyaromatic hydrocarbons which are probably present inside the incinerator (see Mitigation Measures, page 90).

VII. ALTERNATIVES TO THE PROPOSED PROJECT

Three alternatives, in addition to No Project, have been selected for analysis in this EIR.

A. Low Density Alternative

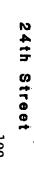
The entire site could be cleared and replaced with dwellings consistent with the existing RH-2 (Residential, House, Two-Family) zoning. Using a mix of 25 by 75 ft. and 25 by 100 ft. lots, it would be possible to divide the 200 by 400 ft. site into 36 lots. Under the Planning Code RH-2 maximum of 1 unit per 1500 sq. ft. with a Conditional Use Permit, 53 units could be built on the site. With 36 lots this would give a mix of 17 duplexes and 19 single-family residences. With a PUD and Conditional Use, 53 units could be built with common open space. (See Exhibit 23, page 100.) The units could probably have 2 or 3 bedrooms.

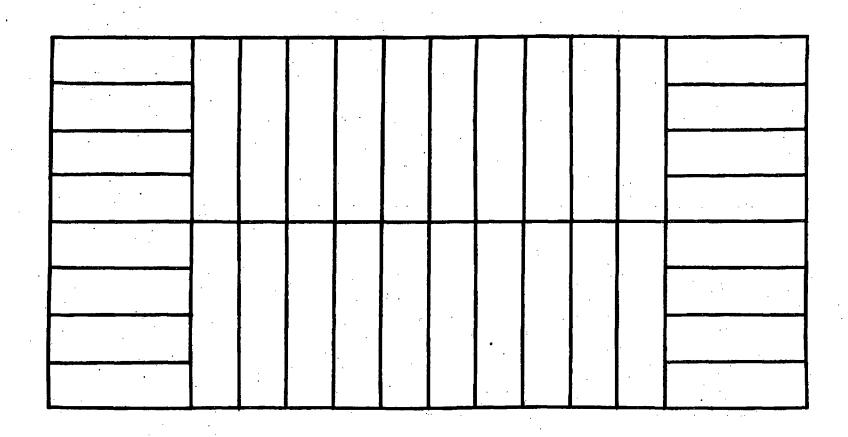
The sale price of the units would have to be higher than for the proposed project, because there would be fewer units requiring a greater yield per unit for a positive return on the sponsors' investment. These units would not reflect the reduction in cost per unit from rehabilitation of the two structures retained in the proposed project.

While it would maintain the neighborhood character, this alternative would create fewer housing opportunities for ownership for area residents, because the smaller number of units would be higher priced and would not provide the range of household sizes of the proposed project.

Alternative A would comply more closely with Objective 2, Policy 1, of the Residential Element of the Master Plan than the proposed project, because the RH-2 density would be closer to that of the surrounding development. It would not meet Objective 4, "Minimize hardships caused by the increased cost of housing," because the units would be more expensive than those in the proposed project.

23rd Street





Rhode Island Street

Low Density Alternative

0 25



Possible lot layout

Exhibit No. 23

Alternative A would have smaller traffic impacts than the proposed project because it would generate fewer trips. This alternative would have greater parking impacts due to reduction of on-street parking spaces because of driveway curbcuts. Per unit parking demands would be greater for Alternative A because the owners of more expensive units would have more cars.

The energy consumption, water consumption, and solid waste production would be on the high side of 40% of that due to the proposed project as use would be slightly more than a straight percentage of the number of units because of 1) the larger average unit size and 2) the higher economic level of the occupants.

Removal of the chimney as an architectural reference point would elimnate an architectural resource and possibly expose construction workers and neighbors to the chemical compounds inside the chimney during demolition. Other waste disposal and potential toxicity problems would be similar to those anticipated for the proposed project.

This alternative was rejected because it would not be profitable to the project sponsor.

Subalternatives. If a duplex were to be placed on each lot, 72 units could be built. Units on the 25 x 75 ft. lots would tend to be small, probably with one bedroom. Energy consumption, water consumption, and solid waste production would be about 55% of that of the project. This subalternative was rejected for the same reason as stated above.

B. High Density Alternative

This alternative would cover the entire site and could be designed with or without commercial space. Units would surround a parking deck, as shown in Exhibit 24, page 103. Swimming and tennis facilities might be located on the roof of the structure. A total of 200 units could be approved for the site if its zoning were reclassified to RM-3 (Residential Mixed District, Medium Density). The Planning Code would require 200 off-street parking spaces.

The socioeconomic impacts of this alternative would be the least of any alternative, including the proposed project, because some units could be offered at prices below market rates.

While this alternative would be in greater compliance with Master Plan policies regarding home ownership opportunities and larger-sized units than the other alternatives, the design would not conform to the character of present development in this neighborhood.

If no commercial space were included, this alternative would result in an average 500 weekday vehicular trips, 240 less than the expected 740 with the proposed project. Other impacts associated with such a project (for example, parking, water use and energy consumption) would be increased by about one-half because of the additional 63 units. If the same amount of commercial space as proposed were included, 370 additional trips per day would be expected, for a total of 870 trips. Adding 40 commercial and residential delivery trips would give 910 total trips or 22% more than the proposed project. Parking demand would probably saturate parking on the streets bounding the project.

This alternative was rejected because it would be out of scale with the neighborhood and project sponsor considers that approvals would be more difficult to obtain.

Subalternative. If 20 of the 200 units were to be designed for the elderly, this would decrease required project parking, for this alternative, from 200 spaces to 184 and would probably decrease neighborhood parking impacts. This alternative was discarded for the reasons stated above.

Not to scale

Exhibit No. 24

C. Mixed Housing Types Alternative1

3-bedroom

alternative C would contain 132 units, evenly divided (44 each) among three types: market-rate units, moderate income units, ² and low income³ rental units. This alternative would have the same number of units as the proposed project and would be built on the same site with a similar design. Market rate and moderate income condominiums would be combined with Section 8⁴ subsidized low income rental units owned and operated by the project sponsor or an independent entity created for the purpose.

HUD⁵ Secton 8 funds could be used for family housing that contains no more than 20% 1-bedroom units and at least 5% 3-bedroom units. Section 8 is a rent subsidy program under which rent in excess of 25% of a low-income household's monthly income can be paid by HUD. The maximum rent for such units, called the Fair Market Rent (FMR), is given in Table 12, page 104. The proposed project would contain about 32% studios plus 1-bedroom units and 7% 3-bedroom units, so the unit mix would have to be shifted or a disproportionate fraction of the larger units would have to be Section 8 units. If the unit mix were shifted to more 2-bedroom units without changing the design (changing the design would decrease the amount of interior courtyard space), then room size in the units would decrease.

Elevator
(2-4 Stories) Walk-Up

Studio \$512 \$461
1-bedroom 612 534
2-bedroom 782 697

849

TABLE 12: MAXIMUM HUD FAIR MARKET RENTS

104

961

Before approving a project such as Alternative C, HUD would consider the feasibility of the project, taking into consideration such factors as the number of subsidized units already in the area, the marketability of the project and the possibility of combining rental and sale units.

The 44 units of moderate income housing, to be affordable, could vary in cost depending on the size of the family and where in the 80 to 120% range household income might be. The limit of affordable housing cost for a moderate income household would be about 3 times the annual income, or \$85,000.6 In the proposed project some of the 1-bedroom units would be within this range and the rest of the units would be above the price range for moderate income housing.

Assuming that the unit mix were not changed, the 44 Section 8 units would have to be made up of 3 three-bedroom, 33 two-bedroom and 8 one-bedroom units, leaving 13 studios, 21 one-bedroom units, 48 two-bedroom and 6 three-bedroom units to divide between moderate and market rate housing. Further assuming the maximum cost of \$85,000 for all the moderate income units, regardless of size, as a rough estimate the maximum sales income from the market rate and moderate income units would be as shown in Table 13.

Direct sales income would be about half of the income of the proposed alternative, and about 60% of the project development costs.

Assuming that HUD maximum rents would be charged in all the rental units and making conservative cost estimates, net rental income would be as indicated in Table 14, page 106.

Assuming constant 1981 dollars, it would take about 23 years to pay the remaining 40% of the cost of the development, without taking into account financing costs. In the first 20 years net rent would be \$5,020,000, leaving a minimum loss to project sponsor in 20 years of roughly \$780,000; debt service would be an additional loss.

Project sponsor has rejected this alternative as economically unfeasible.

TABLE 13: ALTERNATIVE C MAXIMUM POSSIBLE SALES INCOME

	Alternative C			
	Moderate Income	Market Value	Proposed Project	
No. studio units/ \$ per unit	6/\$85,000	5/\$106,000	13/\$106,000	
No. 1-bedroom units/ \$ per unit	10/\$85,000	11/\$ 82,000	29/\$ 82,000	
No. 2-bedroom units/ \$ per unit	24/\$85,000	24/\$133,000	8/\$133,000	
No. 3-bedroom units/ \$ per unit	3/\$85,000	3/\$191,000	9/\$191,000	
Total units/total \$ sales value	44/\$3,740,000	44/\$5,200,000		
Alternative totals	88/\$8,	940,000	132/\$16,200,000	
•				

TABLE 14: MAXIMUM POSSIBLE SECTION 8 INCOME PER YEAR

	\$ Monthly Rent	\$ Annual Rent	Net Annual Rent
8 one-bedroom units	\$ 4,270	\$ 51,300	\$ 36,000
33 two-bedroom units	23,000	276,000	193,000
3 three-bedroom units	2,500	31,000	22,000
Total annual net rent			\$251,000

Notes: Mixed Housing Types Alternative

- 1. This is similar to an alternative proposed by the Potrero Hill Community Development Corporation at a 7 July 1980 meeting of the Potrero Hill Advisory Committee.
- 2. Moderate income households are defined by HUD as households whose income is between 80 and 120% of the HUD-determined median income (\$23,400) for the San Francisco Standard Metropolitan Statistical Area (SMSA). A family of 4 with a household income between \$18,700 and \$28,100 would currently qualify as moderate income.
- 3. Low income is defined by HUD as households whose income does not exceed 80% of the median income for the SFSMA, as determined by HUD. Median income for a family of 4 is currently \$23,400 per year. A family of 4 with a household income of up to \$18,720 per year would currently qualify as low income. HUD expects these figures to be revised in July 1981.
- 4. Section 8 of the Housing and Community Development Act of 1974, usually referred to as "Section 8."
- 5. HUD information in this section is from a telephone conversation between EIR consultant Kreines and Kreines and Steve Grossman, Housing Representative, San Francisco Area, HUD, 3 February 1981, except where otherwise indicated.
- 6. Robert Jolda, Economist, Economic and Market Analysis Division HUD, San Francisco Area Office, telephone conversation with Bendix Environmental Research, Inc., on 11 February 1981. This limit drops during periods of high interest rates so it is possible that none of the units in the proposed project would qualify as moderate income.
- Assuming 10% management cost, 5% repair and maintenance cost,
 utility cost, and 5% taxes.

D. No Project

The no project alternative would be inconsistent with the Master Plan, Residence Element, policy to "Encourage the conversion of underused non-residential land to residental use...", would provide no housing, and would yield no profits to the sponsor. There would be no construction or operation impacts associated with new development.

Deferral of a development decision would leave options for use of the site open for the future. Because this site is surrounded on 3 sides by residential development, it is unlikely that a new industrial use would be considered appropriate there. As there is commercial development 3 blocks east and west of the site, it is also unlikely that an entire block of commercial use would be considered by developers interested in the site. City policy, both in the Master Plan and in Proposition K, approved by City voters on November 4, 1980, encourages provision of new housing in the City. Whenever the decision is made to permit development of the site, residential or residential plus commercial development are the uses most likely to be approved. See Impacts Chapter Section M. for future construction in San Francisco.

The site is now vacant, and recent vandalism is evident throughout the interior of the structures. As there are hazardous substances, such as asbestos and PCBs, on the site, the property could have greater impacts on human health and safety with the no project alternative.

VIII. EIR AUTHORS AND CONSULTANTS: ORGANIZATIONS AND PERSONS CONSULTED

Author of Environmental Impact Report

San Francisco Department of City Planning 45 Hyde Street
San Francisco, California 94102 (415) 552-1134

Assistant Environmental Review Officer: Barbara W. Sahm

Project Manager: Carol Roos

Author of Preliminary Draft EIR

Kreines & Kreines 58 Paseo Mirasol Tiburon, California 94920

Project Manager: Ted Kreines, AICP

With: Selina Bendix, Ph.D.

Bendix Environmental Research, Inc.
1390 Market Street
San Francisco, California 94102

Richard K. Hopper, Transportation Consultant, C-18928 978 DeSoto Lane Foster City, California 94404

Charles M. Salter, Consultant in Acoustics, M-16460 Charles M. Salter Associates, Inc. 350 Pacific Avenue San Francisco, California 94111

Project Sponsor

2222 Limited 300 Montgomery Street San Francisco, California 94104

Project Architect

Architects Associated 300 Montgomery Street San Franciso, California 94104

Organizations and Persons Consulted

San Francisco Department of City Planning
Theresa Cameron-Kerr
Bob Feldman
Roger Herrera
Jeremy Kotas
Eva Levine
Robert Passmore

Transportation Planning Section
Ed Green
Chi-Hsin Shao
Landmarks Advisory Preservation Board
Jonathan Malone

San Francisco Department of Public Works
Traffic Engineering
Scott Shoaf, C-17656, TR-935
Nelson Wong, C-28379
Bureau of Engineering
Cormac Brady, Senior Mechanical Engineer, M-11842
Central Permit Bureau

San Francisco Muni Barbara Brown, Planner Susan Chelone, Planner

San Francisco Water Department
City Distribution Division
Jack Kenck, City Distribution Manager

San Francisco Wastewater Program
Mervin Francies, Engineering Associate II

San Francisco Department of Health
Robert MacDonough, Environmental Health Inspector (deceased)

San Francisco Public Library History & Archives Room

San Francisco Police Department Potrero Police Station Officer Alfred Baldocchi

San Francisco Fire Department
Division of Planning & Research
Chief Robert Rose
Ken Long, Fire Protection Engineer

San Francisco Unified School District
E. R. Schulman

San Francisco Supervisor Doris Ward

Mayor's Office of Community Development Barbara Smith

Bay Area Air Quality Management District Teresa Lee, Public Information Milton Feldstein, Air Pollution Control Officer

CalTrans

John Gersler

California Department of Health Services
Epidemiology Section
Dr. Ephraim Kahn, Chief
Hazardous Materials Management Section
Dr. David L. Storm, Regional Administrator
Ed Refsell, Waste Management Specialist

U.S. Department of Housing & Urban Development
San Francisco Area Office
Robert Jolda, Economic and Market Analysis Division
Steve Grossman, Housing Representative

Dutch Boy, Inc.

Coatings Group

Samuel R. Wilson, Director of Distribution Richard J. Marklin (retired)

PG&E

Robert Tucker, Dealer Representative Tim Duane, Intern

Solar Center, San Francisco

Jones & Kiefer Construction Co., San Francisco Brian Kiefer

LFE Environmental Analysis Laboratories, Richmond

Power Towers, Inc., Pleasant Hill Neil Holbrook

Peterson Associates Realtor Edward E. Pendergrass

Potrero Hill Neighborhood House Enola D. Maxwell, Executive Director

Potrero Hill Community Development Corporation Jim Queen, President Brian Chekowski, Counsel Potrero Hill Boosters & Merchants Association Michael Krivit

Potrero Hill League of Active Neighbors Maria Vermiglio, President

Potrero Hill Homeowners and Renters Association Joan Tricamo

Federal and State Agencies

CalTrans
District 04
150 Oak Street
San Francisco, CA 94102
Attn: John Gersler

California Department of Health Hazardous Materials Management Section (2 copies) 2151 Berkeley Way Berkeley, CA 94704 Attn: Ed Refsell

State Office of Historic Preservation P.O. Box 2390 Sacramento, CA 95811 Attn: Eugene Itogawa

State Office of Intergovernmental Management (15 copies) State Clearinghouse 1400 Tenth Street Sacramento, CA 95814

Regional Agencies

Association of Bay Area Governments Hotel Claremont Berkeley, CA 94705

Bay Area Air Quality Management District 939 Ellis Street San Francisco, CA 94109 Attn: Milton Feldstein

City and County of San Francisco

Supervisor Doris Ward 235 City Hall San Francisco, CA 94102

San Francisco Planning Commission
100 Larkin Street
San Francisco, CA 94102
Toby Rosenblatt
Jerom H. Klein
Butch Salazar
Susan Bierman
Yoshio Nakashima
Roger Boas
Norman Karasick, Alternate
Richard Sklar
Eugene, Kelleher, Alternate
Lee Woods, Secretary

Landmarks Preservation Advisory Board 100 Larkin Street San Francisco, CA 94102

Mayor's Office of Community
Development
939 Ellis Street
San Francisco, CA 94109
Attn: Barbara Smith

San Francisco Department of
 Public Works
City Hall, Room 359
San Francisco, CA 94102
Attn: Jeffrey Lee, Director

Bureau of Building Inspection 450 McAllister Street San Francisco, CA 94102 Attn: Robert Levy, Superintendent

City and County of San Francisco (Cont'd)

Bureau of Sanitary Engineering 770 Golden Gate Avenue San Francisco, CA 94102 Attn: Thomas Landers, Managing Engineer, Wastewater

Water Department
Distribution Division
425 Mason Street
San Francisco, CA 94102
Attn: John Kenck, Manager

Unified School District 135 Van Ness Avenue San Francisco, CA 94102 Attn: E. R. Schulman

San Francisco Fire Department 260 Golden Gate Avenue San Francisco, CA 94102 Attn: Robert Rose, Deputy Chief, Administration

San Francisco Police Department 850 Bryant Street San Francisco, CA 94103 Attn: Cornelius P. Murphy, Chief

San Francisco Department of Health Bureau of Environmental Health 101 Grove Street San Francisco, CA 94102 Attn: Jack Coyne, Director

San Francisco Municipal Railway Planning Department 949 Presidio Avenue San Francisco, CA 94115

San Francisco Wastewater Program 150 Hayes Street San Francisco, CA 94102 Attn: Mervin Francies

Committee for Utility Liaison on Construction and Other Projects c/o GES-Utility Liaison 363 City Hall San Francisco, CA 94102 Attn: Herman Beneke

Groups and Individuals

Mike Krivit, President Potrero Hill Boosters & Merchants Association 1069 Carolina Street San Francisco, CA 94107

Potrero Hill Community
Development Corporation
1060 Tennessee Street
San Francisco, CA 94107
Attn: Jim Queen

Joan Tricamo
Potrero Hill Homeowners &
Renters Association
519 Rhode Island Street
San Francisco, CA 94107

Maria Vermiglio
Potrero Hill League of Active
Neighbors
951 Rhode Island Street
San Francisco, CA 94107

James Firth
Potrero Hill League of Active
Neighbors
577 Arkansas Street
San Francisco, CA 94107

Carol Larsen, President
Potrero Hill Neighborhood House
953 De Haro Street
San Francisco, CA 94107

Edward E. Pendergrass Peterson Associates Realtor 1447 - 20th Street San Francisco, CA 94107

Jack La Dove Potrero Beautification Group 624 Vermont Street San Francisco, CA 94107

Babette Drefke Potrero Beautification Group 701 Kansas Street San Francisco, CA 94107

Groups and Individuals (Cont'd)

Phil De Andradi
Potrero Hill 20th St.
Merchants' Assoc.
300 Connecticut Street
San Francisco, CA 94107

Potrero Hill Advisory Council 1447 20th Street San Francisco, CA 94107

Pat Occoou Potrero Hill Citizens Improvement Association 1021 Connecticut Street San Francisco, CA 94107

Potrero Hill Residents & Homeowners Council 690 De Haro Street San Francisco, CA 94107

Media

KQED Television Studio 500 Eighth Street San Francisco, CA 94103

San Francisco Bay Guardian Patrick Douglas, City Editor 2700 19th Street San Francisco, CA 94110

San Francisco Chronicle Dale Champion 925 Mission Street San Francisco, CA 94103

San Francisco Examiner Don Cantor and Gerald Adams 110 Fifth Street San Francisco, CA 94103

San Francisco Progress 851 Howard Street San Francisco, CA 94103 Attn: Mike Mewhinney

Media (Cont'd)

The Sun Reporter 1366 Turk Street San Francisco, CA 94115

Potrero View 953 DeHaro Street San Francisco, CA 94107

Libraries

San Francisco Public Library Potrero Hill 1616 - 20th Street San Francisco, CA 94107

Documents Department City Library - Civic Center San Francisco, CA 94102 Attn: Faith Van Liere

Environmental Protection Agency Library 215 Fremont Street San Francisco, CA 94105 Attn: Jean Circiello

Government Publications Dept. San Francisco State University 1630 Holloway Avenue San Francisco, CA 94132

Hastings College of the Law Library 198 McAllister Street San Francisco, CA 94102

Stanford University Library Government Documents Section Stanford, CA 94305

University of San Francisco Gleeson Library Golden Gate and Parker Avenues San Francisco, CA 94115

APPENDICES

- A. Proposed Project Costs
- B. Traffic
- C. Chemical Data
 - 1. Chemicals Found on Project Site
 - 2. Metal Compounds Used in Paint Pigments
 - 3. Soil Concentrations of Elements Found On Site
 - 4. Location of Core Samples
 - 5. Site Distribution of Arsenic
 - 6. Site Distribution of Cadmium
 - 7. Site Distribution of Chromium
 - 8. Site Distribution of Copper
 - 9. Site Distribution of Lead
 - 10. Site Distribution of Mercury
 - 11. Site Distribution of Zinc

APPENDIX A

Projected Project Costs

APPENDIX A

Proposed Project Costs

Basic Construction	\$9,756,000*
Land Cost	1,250,000
Land Carrying Cost	567,000
Demolition	300,000*
Site Preparation	175,000*
Architecture	325,000
Engineering	140,000
Legal	35,000
Soils	20,000
Marketing:	•
Sales/Models	200,000
Financing	
Construction Loan 2pts	280,000
End Loans 1 pt	210,000
Interest during Construction	1,300,000
Homeowners Dues (by Developer)	110,000
Total Development Cost	\$14,668,000

^{*}Construction costs

APPENDIX B

Traffic

LEVELS OF SERVICE DEFINITIONS FOR SIGNALIZED INTERSECTIONS*

Level of Service A

Level of service A describes a condition where the approach to an intersection appears quite open and turning movements are made easily. Little or no delay is experienced. No vehicles wait longer than one red traffic signal indication. The traffic operation can generally be described as excellent.

Level of Service B

Level of service B describes a condition where the approach to an intersection is occasionally fully utilized and some delays may be encountered. Many drivers begin to feel somewhat restricted within groups of vehicles. The traffic operation can generally be described as very good.

Level of Service C

Level of service C describes a condition where the approach to an intersection is often fully utilized and back-ups may occur behind turning vehicles. Most drivers feel somewhat restricted, but not objectionably so. The driver occasionally may have to wait more than one red traffic signal indication. The traffic operation can generally be described as good.

Level of Service D

Level of service D describes a condition of increasing restriction causing substantial delays and queues of vehicles on approaches to the intersection during short times within the peak period. However, there are enough signal cycles with lower demand such that queues are periodically cleared, thus preventing excessive back-ups. The traffic operation can generally be described as fair.

Level of Service E

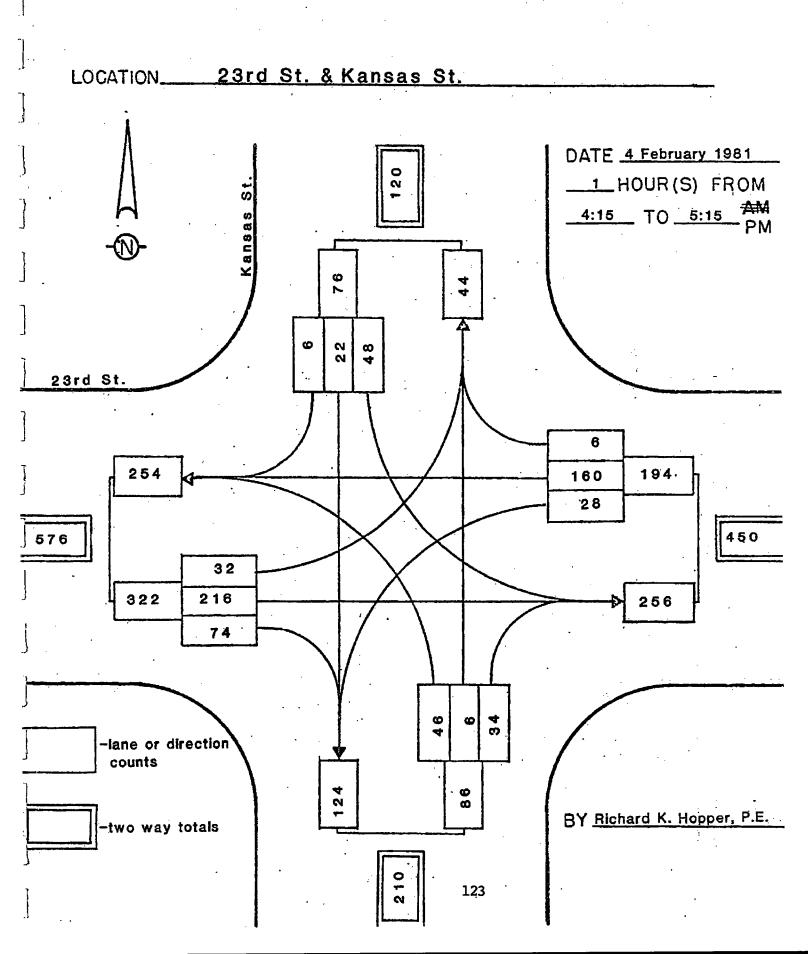
Capacity occurs at level of service E. It represents the most vehicles that any particular intersection can accommodate. At capacity there may be long queues of vehicles waiting up-stream of the intersection and vehicles may be delayed up to several signal cycles. The traffic operation can generally be described as poor.

Level of Service F

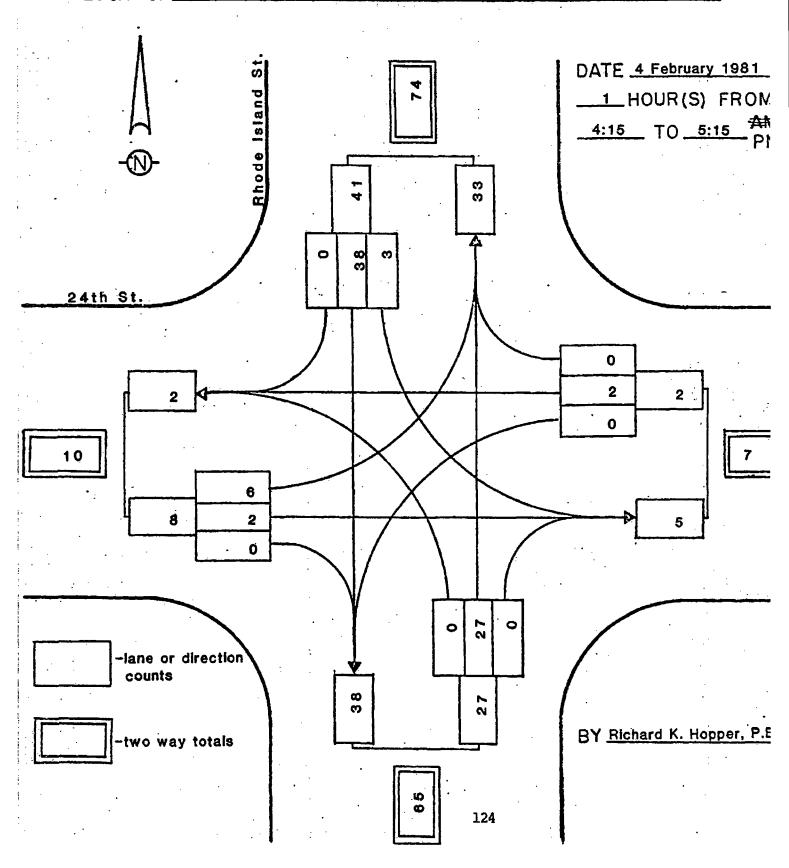
Level of service F represents a jammed condition. Back-ups from locations downstream or on the cross street may restrict or prevent movement of vehicles out of the approach under consideration. Hence, volumes of vehicles passing through the intersection vary from signal cycle to signal cycle. Because of the jammed condition, this volume would be less than capacity.

122

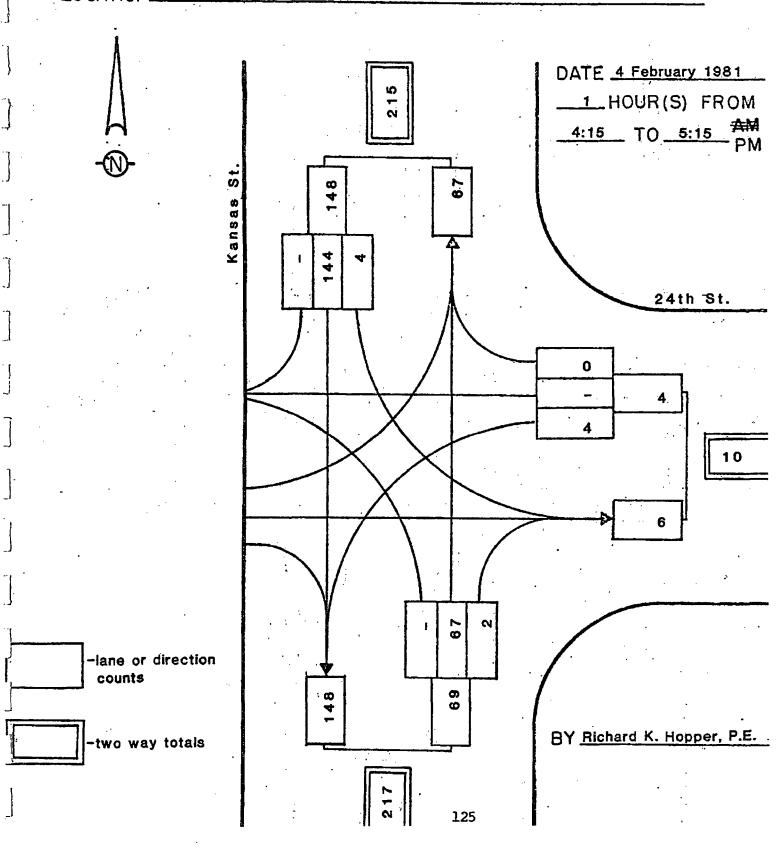
^{*} City and County of San Francisco, Department of Public Works Traffic Engineering Division

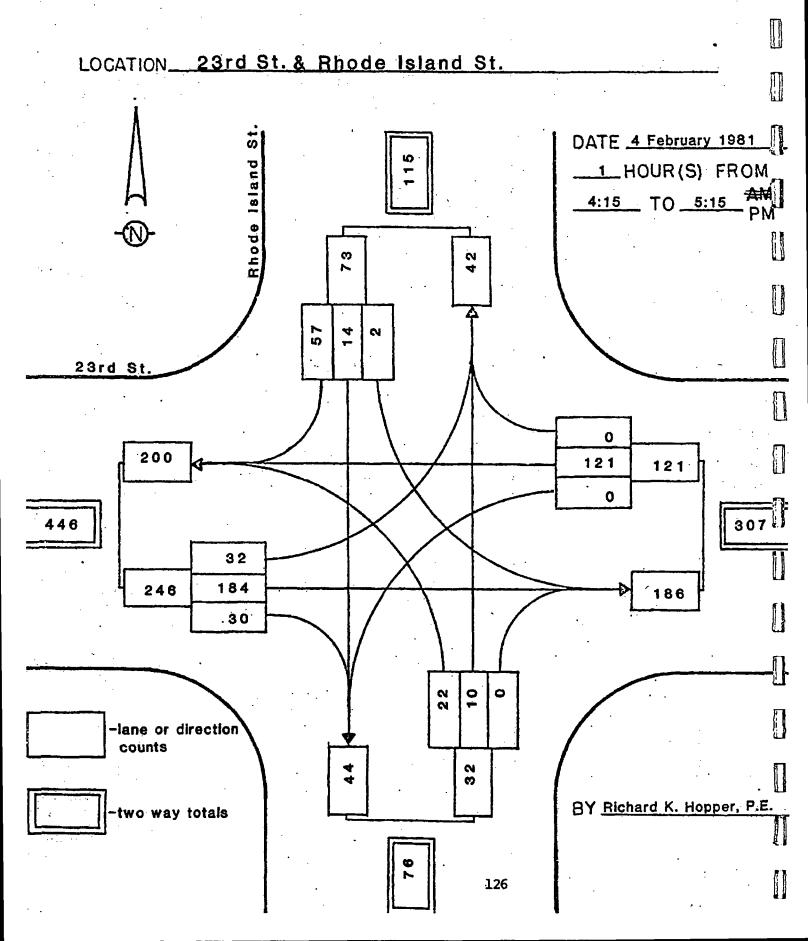


LOCATION 24th St. & Rhode Island St.



LOCATION 24th St. & Kansas St.





CAPACITY ANALYSIS SUMMARY OF INTERSECTIONS ADJACENT TO PROJECT SITE

Intersection	Heaviest Traffic	Lightest Traffic	<u>Total</u>	Capacity	Volume/ Capacity	Level of Service
Existing Condition	ons, 4:15-5	:15 p.m.				
23rd St. & Kansas St.	516	162	678	1175*	0.58	A
23rd St. & Rhode Island St.	376	105	481	900**	0.53	A
24th St. & Kansas St.	217	4	221	1000**	0.22	A
24th St. & Rhode Island St.	68	10	78	1000**	0.08	A
With Project Trans	ffic Added,	4:15-5:15	p.m.			- -
23rd St. & Kansas St.	536	172	708	1175*	0.60	A
23rd St. & Rhode Island St.	374	111	485	900 **	. 0.54	A
24th St. & Kansas St.	230	14	244	1000**	0.24	: а
24th St. & Rhode Island St.	73	14	87	930**	0.09	A

^{*} Institute of Transportation Studies, "Fundamentals of Traffic Engineering - 8th Edition," 1973, p. 7-7.

Source: Richard K. Hopper, Traffic Engineer

^{**} Institute of Transportation Engineers, "Transportation and Traffic Engineering Handbook," 1976, pp. 347-350.

APPENDIX C

- l. Chemicals Found On Site
- 2. Metal Compounds Used in Paint Pigments
- 3. Soil Concentrations of Elements Found On Site

 ${\bf \hat{g}}_{i,r}$

- 4. Location of Core Samples
- 5. Site Distribution of Arsenic
- 6. Site Distribution of Cadmium
- 7. Site Distribution of Chromium
- 8. Site Distribution of Copper
- 9. Site Distribution of Lead
- 10. Site Distribution of Mercury
- 11. Site Distribution of Zinc

Item	Bldg.	Level	Description	Manufacturer	Label	Opened?	Comments	
1	1	Grnd.	1-5 gal drum Sol 150, "for pool chlorination "corrosive"	Jones Chem. "Corp., Cale- donia, NY	orig.	empty		Action
2 .			1-5 gal metal drum "Dromus," coolant, cutting oil		orig.	yes		
3		2	home size bathroom cleaning products		orig.	most		
4		3	2-5 gal plastic cans "Hard Water Rinse Fluid"	Natl. Insti- tutional Food Distri- butors Asso-	orig.	yes	East side of fire escape.	
te .				ciates Inc., Atlanta, GA	•	•		
5			1-5 gal plastic drum dark liquid, labelled "poison cleaner"		hand	yes		
6			1-3/4 gal "Lime-A- Way, contains:		orig.	yes	Found moved and spilled 18 J	
,			phosphoric acid	- · .			Corrosive. Contact with commetals produces hydrogen whiform flammable mixtures with Moderately irritating to eye mucous membranes. Safe huma sure limit 0.1 parts per mil	ch may air. s, skin, n expo-
	•		"hydroscetic scid"	·			(ppm) in air. Vapor forms explosive mixtur air. Dangerous in contact woxidizing materials. Flash 109 F.	ith
7			2-5 gal containers soft brown solid	none	yes		Looks like cooking fat or wa	х.

12

CHEMICALS FOUND ON PROJECT SITE, Page 2.

Item	Bldg.	Lével	Description	Manufacturer	Label	Opened?	Comments
8	Ţ	3	1-50 gal cardboard drum Formula 251, boi- ler cleaner, contains sodium polyacrylate	Garrat-Calla- han, Milbrae, CA		maybe	DOT required label: non-corrosive, non-toxic cleaning compound. pH approx. 8 (slightly basic).
9			l home-size can Black Flag pesticide		orig.	yes	Some Black Flag products contain DDVP and isopropoxyphenyl methyl carbamate. DDVP produces human blood and skin effects at 1 part
				·			per trillion in air and is terato- genic. The carbamate has a safe human exposure limit of 0.5 ppt in air. Can gone as of 20 June 1980.
10		4	l-½ gal can paint remover, contains methylene chloride (dichloromethane)	Montgomery Ward	orig.	yes	Narcotic in high concentrations. Suspected human carcinogen. Human safe exposure limit 1000 ppm.
11		5	bathroom cleaning products		orig.	yes	
12		6	1-5 gal drum paint	•	none	yes	Near elevator; not in orig. container.
13	5	grnd.	l-l gal can automo- tive lacquer		orig.	yes .	Near Kansas St. entrance.
14			l-wooden box cleaning products	· .	orig.	most	
15			1-50 gal, blue metal drum		hand	maybe	Labelled 30H with 3 and possibly 0 crossed out and 4 written in.
16	·.		50 to 100 lqt to 1 gal spray & non-spray paint cans		orig.	about	

Item	Bldg.	Level	Description Max	ufacturer	Label	Opened?	Comments
17	2 .	grnd.	2-1 qt to 1 gal paint thinner	٠	orig.	yes	
18		: ~	1-55 gal blue plastic not drum "Typewash #54A, S.E.X. typewash, "caution combustible"	on label	yes	yes	
19			Approx 100 gal vat with bottom spigot. Paint?		unlabe	lled yes	Part full.
20			3-55 gal drums, "gaso- line," "danger flam- mable"		hand	yes	Part full.
21			1-55 gal drum		unlabe	lled yes	
22		2	Assorted pt to gal cleaning products, including ammonia		orig.	some	Irritant at 20 ppm in air.
23			1-5 gal drum floor wax		orig	?	
24			1-1 gal photographic fixer, contains: sodium thiosulfate,	٠	orig.	?	
			acetic acid				See Item 6.
25			Approx 10-1 qt paint cans		none	yes	
26		3	personal toiletries		orig	mostly	

Item	Bldg	Level	Description	Manufacturer	Label	Opened?	Comments
27	2	4	household size paint & cleaning supplies		orig + hand	mostly	
28	3 .	grnd (not base- ment here)	2-1 gal jugs Lucdol, 60% methyl ethyl ke- tone peroxide (2- butanone peroxide)	Kodak	orig	?	Affects human intestinal tract. Flash Point 21°F. Fire fighting should be done from an explosion resistant location. Carcinogenic in mouse.
			dimethyl phthalate				Teratogen in rat. Irritating to mucous membranes. Nervous system depressant. Human permissible exposure limit 5 ppm. Incompatible with nitrates.
29	. •		8-1 gal "rapid fixer"		orig	some	
30			l-1 gal "Pakosol" print conditioner	Pako Corp., Minneapolis, Minn.	orig	?	
31			2-1 gal containers varnish remover, methylene chloride	Montgomery Ward.	orig	?	See Item 10.
32		3	l-1 gal linseed oil		orig	yes	
33		4 .	l-1 gal "all purpose cleaner"				
34	3,4,5		g 10-50 gal metal drums full of liquid	•	none	yes ·	Non-flammable, acidic, similar contents.
35	ц.	_	l-blue plastic, 50 gal		none	no	Near entrance to bldg. 3.

ᅜ

Item	Bldg.	Level	Description	Manufacturer	Label	Opened?	Comments
36	5	N/A	2-55 gal drums "Swifts Adhesive"	· •	orig	yes	
37			1-5 gal plastic drum "Flexichrome green"		orig	yes	
38	•	•	7-55 gal drums "urea resin"	Reichhold Chem	hand	maybe	
39			1-55 gal drum "sand"		hand	maybe	
40			6-55 gal drums iso- butanol		hand	maybe	Flash Point 82°F. Firefighting should be done from an explosion-resistant location. Carcinogenic in rat. Mildly irritating to skin and mucous membranes. Narcotic in
		•			•		high doses.
41			2-55 gal drums "White glue"		hand	yes	
42			9-5 gal cans cement sealer, "Steel coat"		orig	maybe	
43		•	8-5 gal cans Tremco- 300, "sealer for concrete floors," contains:		orig + hand	maybe	
			urethane,		•		carcinogenic in rat, mouse, guinea pig and hamster. Teratogenic in rat, mouse and hamster.
			polyester resin, epoxy resin, alkyd resin			•	
j ††			approx 10-1 gal cans		orig	no	

Item	Bldg.	Level	Description	Manufacturer	Label	Opened?	Comments
45	5	n/A	approx 50-1 qt cans paint		orig	no	, in the state of
46			1-55 gal drum "pine glaze," contains petroleum distillates and/or industrial solvents	Lily Indus- trial Coa- tings, 901 W Union St, Montebello, CA	orig + hand	yes	
47			2-3 gal containers "Plastiglaze type c, aluminum grade"		orig	yes	
48		tv v	2-55 gal drums "Polalyte Resin solution, contains: styrene,	Reichold, LA	orig	maybe	Flash Point 90°F. Forms explosive mixtures with air. Vapor may travel considerable distance to source of ignition then flash back. Fire-
	,					,	fighting should be done from an explosion resistant position. Eye and respiratory irritant. Keep away from oxidizing agents.
			and/or 'acrylite monomers"		•		away from United Ing agenus.
49		-	1-55 gal drum "car- pet adhesive"	•	hand	yes	Found spilled on 20 June; is adhesive.
50		 1.	11-55 gal cardboard drums, 1 labelled Dylyte expandable polyester; open		orig	yes	
•	• •	• .	drums contain pow- der			•	

134

CHEMICALS FOUND ON PROJECT SITE, Page 7

Item	Bldg.	Level	Description	Manufacturer	Label	Opened?	Comments
51	5	N/A	1-55 gal drum "lube oil"		stenci	l yes	Not full.
52	, •		1-55 gal drum "Aluminum sealer"	Parwaf Mfg. LA	orig + hand	yes	
53	•	· •	1-5 gal drum "darkroom"	•	hand	yes	
54	·.		8-55 gal drums stucco patch		stenci	maybe 1	
55			1-55 gal cardboard drum spackling powder		orig?	yes	South side of bldg. May contain asbestos. Found spilled 20 June.
56			8-1 gal cans Dursban 2E insecticide (lorsban, Chlorpyrifos)	Dow	orig	no	Soil insecticide for control of wire worms, cutworms, corn root-worms. Occupational exposure limit 0.2 ppm in air. Cans nearly rusted through.
57			15-55 gal, old, metal drums	Orig label Harvest Base Co.		yes	No indication of nature of contents Some with red spray paint crosses.
58	6	grad	2-55 gal plastic drums clay slip		hand	maybe	One found spilled 20 June.
59			approx 20 bags ferti- lizer, ammonium nitrate		orig	some	Explosive. Organic matter can sensitize to more readily explodable state. Melts at 337 F. Emits toxic gases on decomposition. Responsible for 1947 Texas City disast
60	8	grnd	2-55 gal drums "datoma- ceous earth"		hand	yes _.	Made up of fused silica, spherical submicroscopic particles under 0.1

CHEMICALS	FOUND	ON	PROJECT	SITE.	Page	8

Item	Bldg.	Level	Description	Manufacturer	Label	Opened?	Comments
61	10&11	grnd	1-1 gal bottle hydro- chloric acid		orig	уes	Found moved on 20 June 1980. Fatal at 1500 ppm in air. High reactivity. Contact with common metals produces hydrogen which may form explosive mixtures with air. Keep away from oxidizable materials.
62			1-1 gal container soda ash (sodium carbonate)		orig	yes	Eye and skin irritant.

C.2: Toxicity of typical inorganic paint pigments.

· i						
Common Name	Chemical Name	Chemical Formula	Color	Human Target Organs	Occupational Permissible Exposure Limits in milligrams/cubic meter air	Comments
Litharge	lead oxide	РьО	yellow	blood, nervous system, kidney	0.002	
Orpiment	arsenic trisulfide	As ₂ S ₃	yellow	intestinal tract, skin, nervous system	, 0.002	Now little used; car- cinogen ²
Paris Green	copper acetate meta-arsenate or copper, bis (acetato) hexa- meta-arsenito- tetra-	Cu(C ₂ H ₃ O ₂) ₂ .	green	intestinal tract, nervous system	, 0.002	
J Realgar	arsenic disul- fide	As ₂ S ₂	red	intestinal tract skin, nervous system	, 0.002	Now little used; car- cinogen
Cadmium Yellow	cadmium sul- fide	CdS	yellow	kidney, lungs	0.04	carcinogen
Cadmium Red	cadmium sul- fide/cadmium selenide mix- tures	CdS CdSe	light red to maroon	kidney, lungs, liver, prostate, blood	0.04	carcinogen
Chrome Yellow	lead chromate	PbCrO ₄	yellow	blood, nervous system, kidney	0.05	carcinogen
Red Lead	lead oxide	Pb304	red	kidney, blood, nervous system	0.05	used to pro- tect steel

C.3: Comparison of normal soil concentrations of some elements and minimum and maximum concentrations found on site.

Element	Normal Soil Range ppm	Minimum Site ppm bore # depth		Values Maximum ppm bore # depth				
Cadmium	0.1 - 71	<0.6 4	3 feet	17	s	0	feet	
Chromium	trace - 250 ⁵	34 3	4.3	1000	8	9.4		
Copper	2 - 150 ¹	7.9 4	3	` 160	s	0	•	
Lead	1 - 200 ^{3,4}	5,6 1	15.3	4800	S.	. 0		
Mercury	0.12	0.12 8	9.4	8.6	s	0	•	
Zinc	trace ~ 250 ⁵	19. 8	9.4	4200	s	0		
Arsenic	1 - 706	3.5 3	4.3	60	4	15		

^{1 &}quot;The Nature and Properties of Soils," 8th Ed. Nyle, C. Brady, MacMillan 1974.

S = surface sample.

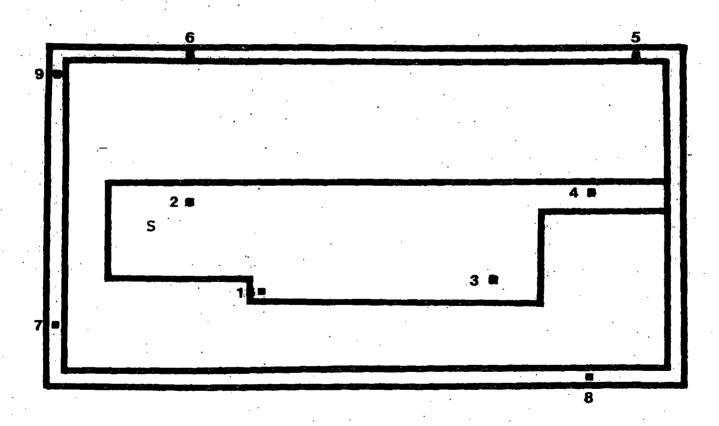
² Average concentration. "Mercury in Your Environment," Bendix, Selina, Oceanic Society, 1971, p.1.

³ Zimduhl, Robert L. & Skogerboe, Rodney K. "Behavior of Lead in Soil," Environmental Science and Technology, 11:1202-1207(1977).

^{4.} Soil used to replace lead-contaminated soil in an Oakland park was found to have 15-19 ppm lead* (*Wesolowski, Jerome, J., "The Identification and Elimination of a Potential Lead Hazard in an Urban Park," Archives of Environmental Health, 34:413-418(1979)).

⁵ Baetjer, Anna M., "Chromium," Proc. Symp. Toxicity of Metals, Industrial Health Fdn, 1975.

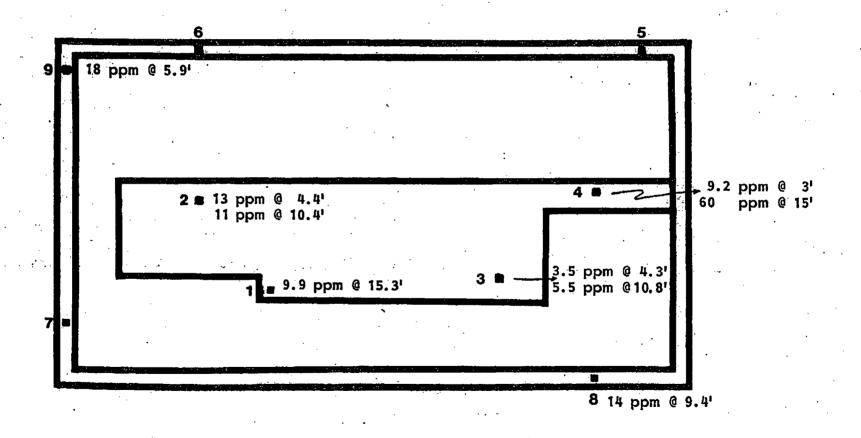
⁶ Bear, Firman E., "Chemistry of Soil," p. 366, 2nd Ed., 1964.

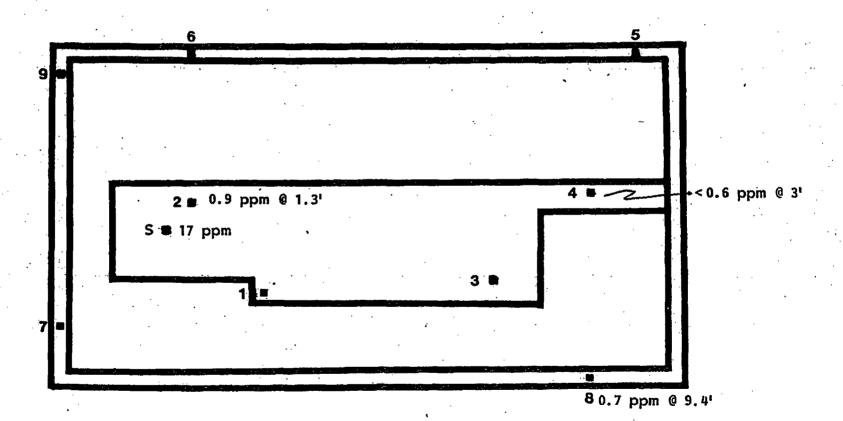


S: Location of Surface Sample

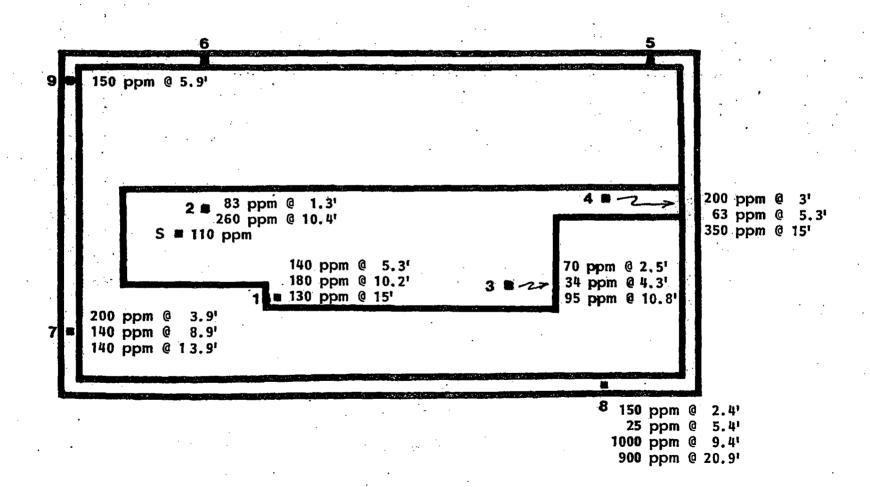


C.5: Distribution of ARSENIC on the site.

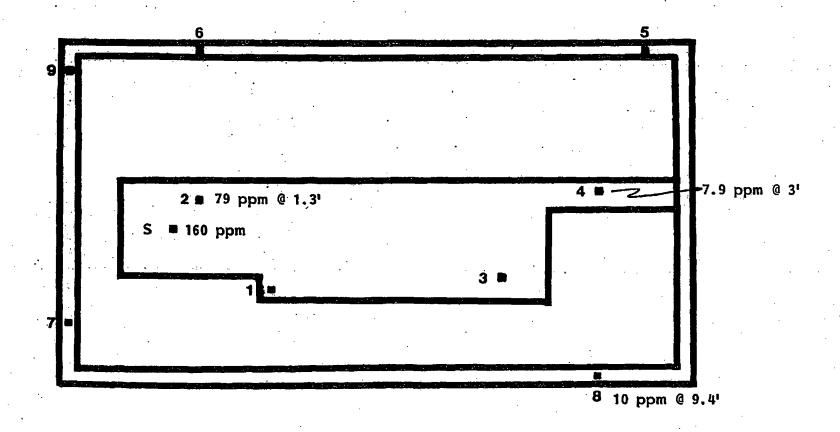




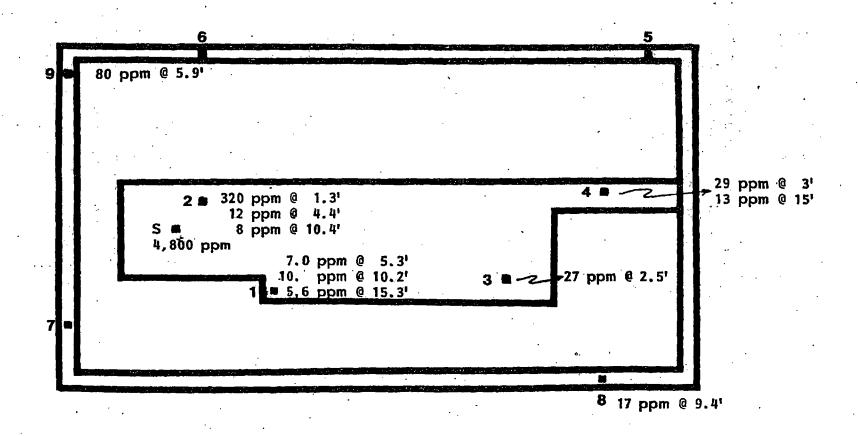
C.7: Distribution of CHROMIUM on the site.

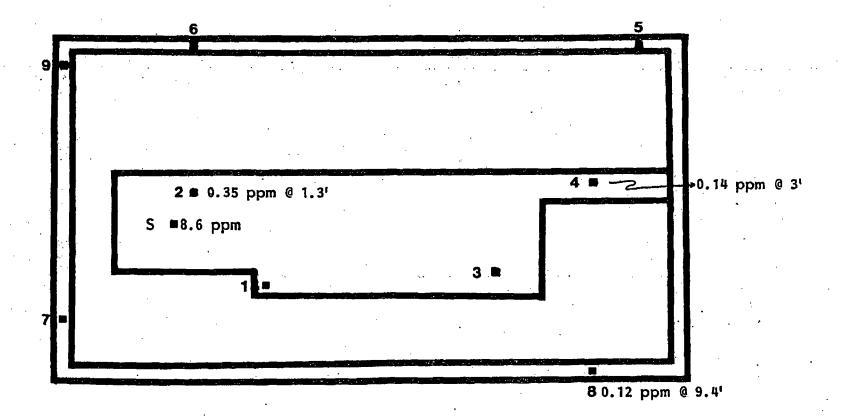


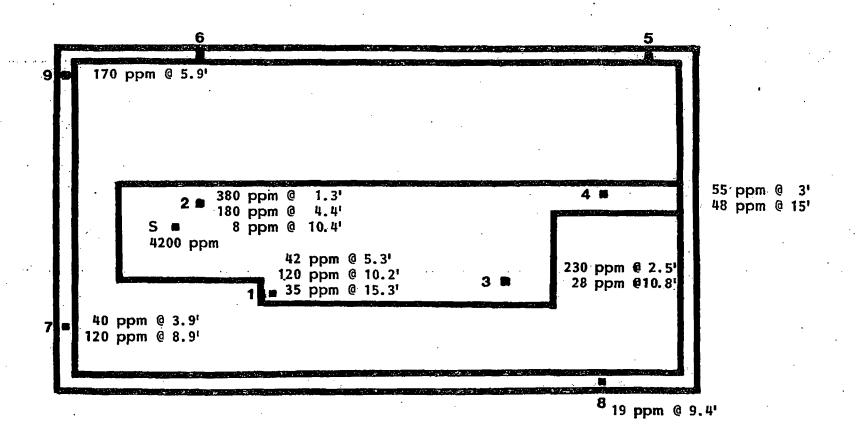
C.8: Distribution of COPPER on the site.



C.9: Distribution of LEAD on the site.







DEPARTMENT OF CITY PLANNING 100 LARKIN STREET - SAN FRANCISCO, CALIFORNIA 94102

FINAL

ENVIRONMENTAL IMPACT REPORT

2222 23RD STREET

EE 80.110

State Clearinghouse No.: SCH 81040705

Changes from the text of the Draft EIR are indicated by solid dots. A dot to the left of a sentence indicates a new or revised sentence. A dot to the left of a paragraph indicates a new or revised paragraph. A dot to the left of the title of a table indicates a new or revised table. A dot to the left of a page number indicates a new page.

Publication Date: March 27,1981

Public Comment Period: March 30, 1981 through May 14, 1981

Public Hearing Date: April 30, 1981

Certified: July 2, 1981

FINAL

ENVIRONMENTAL IMPACT REPORT

2222 23RD STREET

EE 80.110

State Clearinghouse No.: SCH 81040705

Changes from the text of the Draft EIR are indicated by solid dots. A dot to the left of a sentence indicates a new or revised sentence. A dot to the left of a paragraph indicates a new or revised paragraph. A dot to the left of the title of a table indicates a new or revised table. A dot to the left of a page number indicates a new page.

Publication Date: March 27,1981

Public Comment Period: March 30, 1981 through May 14, 1981

Public Hearing Date: April 30, 1981

Certified: July 2, 1981

TABLE OF CONTENTS

			Page
List	of E	Exhibits	iv
List	of T	Tables	v
I.	SUM	MARY	1
II.	PRO	DJECT DESCRIPTION	4
	A.	Sponsor and Objectives	4
	В.	Location	4
	C.	Description	4
	D.	Required Project Approvals	16
III.	ENV	VIRONMENTAL SETTING	18
	A.	Land Use and Zoning	18
	В.	History of the Site	25
	С.	Transportation	28
	D.	Noise	33
	E.	Topography and Geology	37
	F.	Plants	38
IV.	ENV	IRONMENTAL IMPACT OF THE PROPOSED PROJECT	39
	Α.	Land Use and Zoning	39
	В.	Historic Structures	40a
•	C.	Comprehensive Plan and Other City Policies	40a
4	D.	Economic and Employment Impacts	43
	E.	Transportation	46
	F.•	Noise	51
	G.	Air Quality	54
	Н.	Toxic Substances	60
	I.	Energy	71
	J.	Community Services	77
	K.	Topography and Earthquake Effects	81

TABLE OF CONTENTS (Cont'd)

			Page	
IV.	EN	VIRONMENTAL IMPACT OF THE PROPOSED PROJECT		
	(Co	(Cont'd)		
	L.	Plants	82	
	. М.	Short Term Use of Man's Environment vs. the	82	
		Maintenance of Long Term Productivity		
	N.	Growth Inducing Effects	82	
	0.	Neighborhood Concerns	84	
v.	MIC	rigation measures	86	
	Α.	Urban Design	86	
	в.	Historic Structures	86	
	c.	Housing Cost	. 87	
	D.	Noise	87	
-	E.	Toxic Substances	88	
	F.	Energy	93	
	G.	Structural Safety	95	
●.	Н.	Traffic	96	
VI.	AD\	VERSE ENVIRONMENTAL EFFECTS WHICH CANNOT	98	
	BE	AVOIDED IF PROPOSAL IS IMPLEMENTED	•	
	A.	Land Use	98	
	в.	Noise	98	
	C.	Energy	98	
	D.	Air Quality	98	
	E.	Toxic Substances	98	
/II.	ALTERNATIVES			
	A.	Low Density Alternative	99	
	В.	High Density Alternative	102	
	c.	Mixed Housing Alternative	104	
	D.	No Project	108	

TABLE OF CONTENTS (Cont'd)

				Page
•	VIII.	SUMMARY OF COMMENTS AND RESPONSES		109
	IX.	EIR AUTHORS AND CONSULTANTS: ORGAINIZATI AND PERSONS CONTACTED	CONS	147
	х.	DISTRIBUTION LIST		151
•	XI.	CERTIFICATION RESOLUTION		
	Append	ices		,
		A. Proposed Project Costs		159
		B. Traffic		161
		C. Chemical Data		167

LIST OF EXHIBITS AND TABLES

		<u>Page</u>
Exhibits		
1.	Regional Location	2
2.	Site Location	5
3.	Existing Site	6
4.	Rhode Island St. and Kansas St. Elevations	8
5.	23rd St. Elevation	. 9
6.	24th St. Elevation	10
7.	Kansas Street Grade Plan	11
8.	First Floor Plan	12
9.	Second Floor Plan	13
10.	Third Floor Plan	14
11.	Fourth Floor Plan	15
12.	Zoning	19
13.	Photograph of Site and Freeway and Photo-	20
,	graph from Site of Kansas St. and 23rd St.	
14.	Existing Land Use	21
15.	Photograph of Buildings Facing Site on Rhode	22
	Island St. and Photograph of Buildings	
	Facing Site on 23rd St.	
16.	Wisconsin Street Site	23
17.	- Photograph of Chimney and Garage to be	26
	Retained	•
18.	Street Map Showing Connections To and From	29
	James Lick Freeway	
19.	Transit Service	31
20.	Noise Measurement Locations	34
21.	Relationship of Zinc and Lead Concentrations	66
	to Depth in Soil	
22.	Low Density Alternative	100
23.	High Density Alternative	103

LIST OF EXHIBITS AND TABLES (Cont'd)

		Page
Tables		
Tables	Unit Types and Prices	16
2.	Street Characteristics	28
3.	Ambient Noise Measurements	35
4.	Allowable Housing Density by Zoning District	40
• 5.	Estimated Project-Generated Municipal Tax	44
	Revenues in 1980 Dollars, Calculated at	
	1980-1981 Tax Rates	
• 6.	Table 6 deleted	
7.	Average Weekday Vehicular Trip Generation	47
8.	San Francisco Quarterly Air Lead Concentrations	56
	in Milligrams Per Cubic Meter, MG/M ³	
9.	Energy Intensiveness of Typical Building	71
	Materials	
10.	Crime Incidence in Project Area	78 a
11.	San Francisco Heat Loss Through Single- and	93
	Double-Glazed Windows	
12.	Maximum HUD, Section 8, Fair Market Rents	104
13.	Alternative C, Maximum Possible Sales Income	106
14.	Maximum Possible Section 8 Income Per Year	106
• 15.	Comparison of 2/4/81 and 5/12/81 Traffic Counts	124
16.	Five-Year Traffic Accident Record for Project	
- 10.	Area	125
• 17.	Alternative D-1. Proposed Project + 25% Bonus	106b
~ 4/ •	The second section of the second seco	

I. SUMMARY

A Planned Unit Development (PUD), consisting of 132 condominiums, 8500 square feet of neighborhood-oriented commercial space, and 161 parking spaces, is proposed for the former paint manufacturing site including the entire block bordered by Kansas, 23rd, Rhode Island and 24th Sts. The project would include rezoning from RH-2 (House, Two-Family) to RM-2 (Mixed Residential, Moderate Density), to be requested by project sponsor. A 60-foot-tall building at Kansas and 24th Sts. would be remodeled into housing units, and a chimney on Rhode Island, listed in the Department of City Planning Architectural Survey, would be preserved. The site is on the east edge of the James Lick Freeway and is subject to Freeway noise.

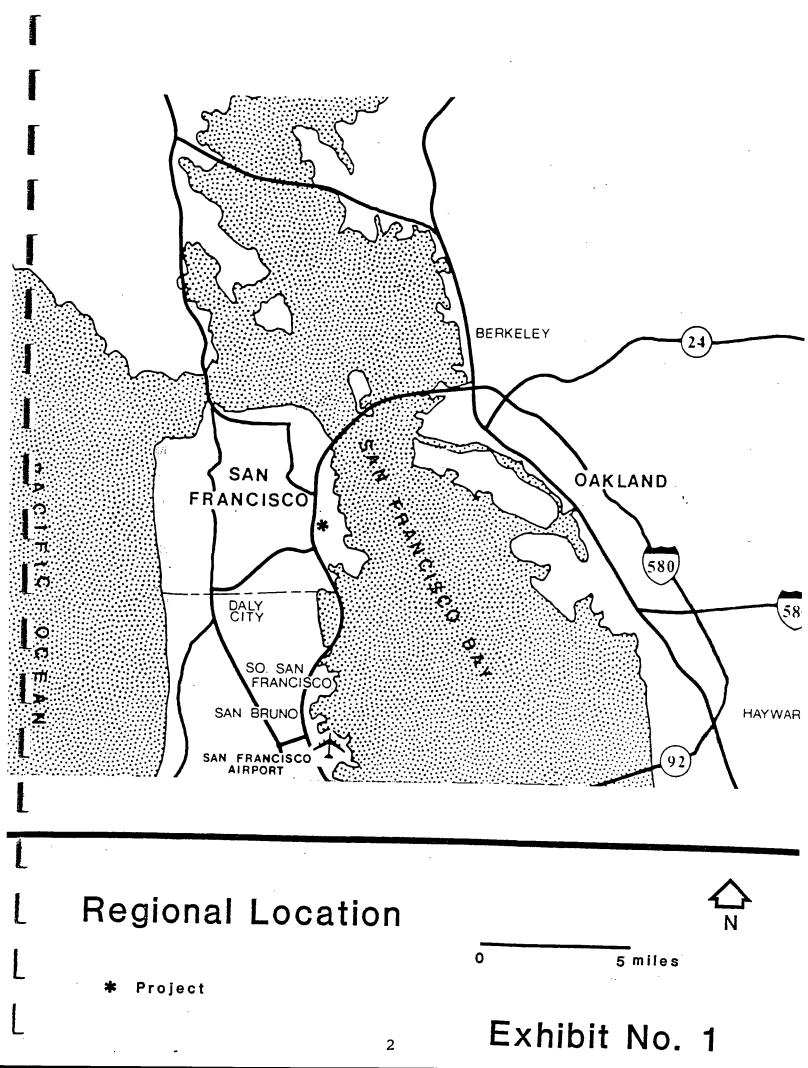
The project design would generally maintain the present site development configuration with a perimeter of structures surrounding central, common open space. New construction would comply with the 40 ft. height limit.

The project would comply with Master Plan policies encouraging the use of underused land and development of a variety of housing unit types by provision of 13 studios, 29 one-bedroom, 81 two-bedroom and 9 three-bedroom units on an unused site.

The project would generate about 740 vehicle trips per day. The four bounding streets would remain at Level of Service A with this additional traffic; and freedom of pedestrian movement would not be affected. Off-street parking within the project and now unused street parking space would accommodate project-generated parking needs.

The relatively high noise levels on the west side of the project would be mitigated by use of sound attenuating construction materials to bring interior noise levels to a non intrusive level.

Toxic materials in containers on the site have been removed. Demolition and renovation will be conducted so as to prevent dispersion of toxic dust in the neighborhood. The incinerator will be sealed to prevent access to toxic materials inside. Heavy metal paint ingredients spilled on the site presently contaminate the soil. After removal of the concrete slabs which cover most of



the site, a soil analysis program and appropriate mitigation measures will be developed in consultation with the Hazardous Materials Section of the State Department of Health Services. Electrical equipment containing PCBs and PCB spills will be removed prior to demolition.

Some neighborhood groups have expressed concerns over the potential effect of the proposed project on housing price inflation in the Potrero Hill area.

Four alternatives to the proposed project have been considered, including the No Project Alternative. A Low Density Alternative, complying with present RH-2 zoning, could include 53 units which would be more expensive than the project because of the small number of units and absence of remodeled units. A High Density Alternative, requiring reclassification to RM-3 rather than RM-2, could include 200 units. This Alternative would be out of scale with surrounding development. A Mixed Housing Alternative, evenly divided between market rate, moderate income condominiums and Section 8 subsidized low income rental units, was also considered and found to not be economically feasible.

II. PROJECT DESCRIPTION

A. Sponsor and Objectives

The project sponsor is "2222 23rd Street," a San Francisco partnership, and the project architect is Architects Associated. The objectives of the sponsor are to provide housing, to provide a return on the investors' money, and to produce a project sensitive to the site-specific issues discussed in the DEIR.

B. Location

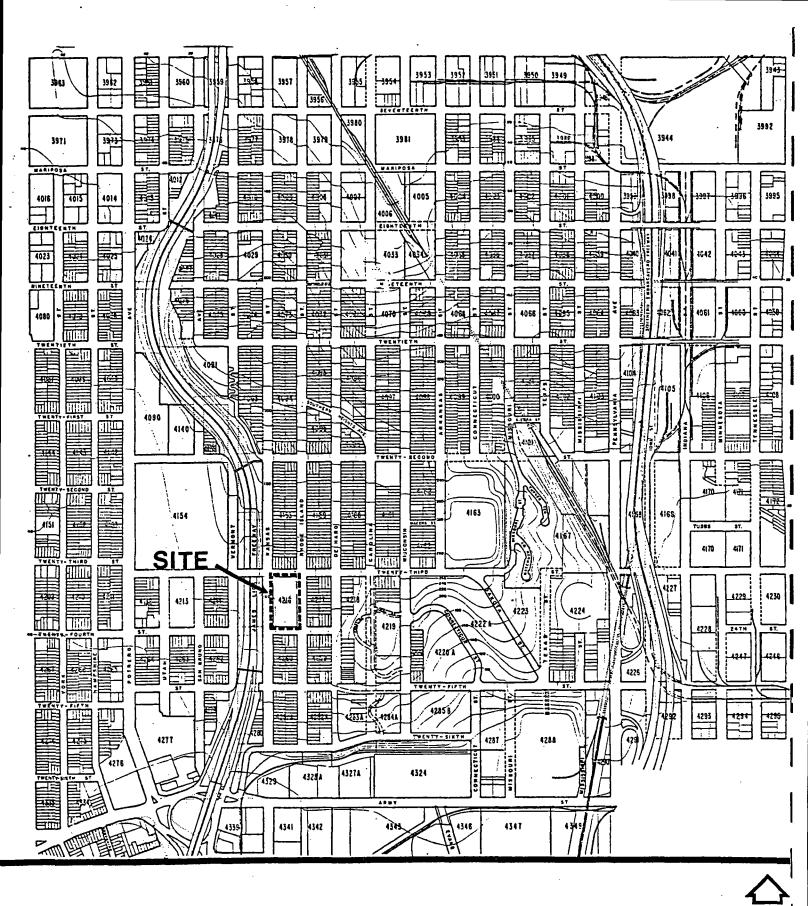
The project site is an 80,000 square foot, 1-block area at the western base of Potrero Hill in southeastern San Francisco (see Exhibit 2, page 5). The site includes the entire Assessor's

- Block 4216, Lot 1, bounded on the west by Kansas Street, on the
- east by Rhode Island Street, on the south by 24th Street, and on the north by 23rd Street (see Exhibit 3, page 6).

C. <u>Description</u>

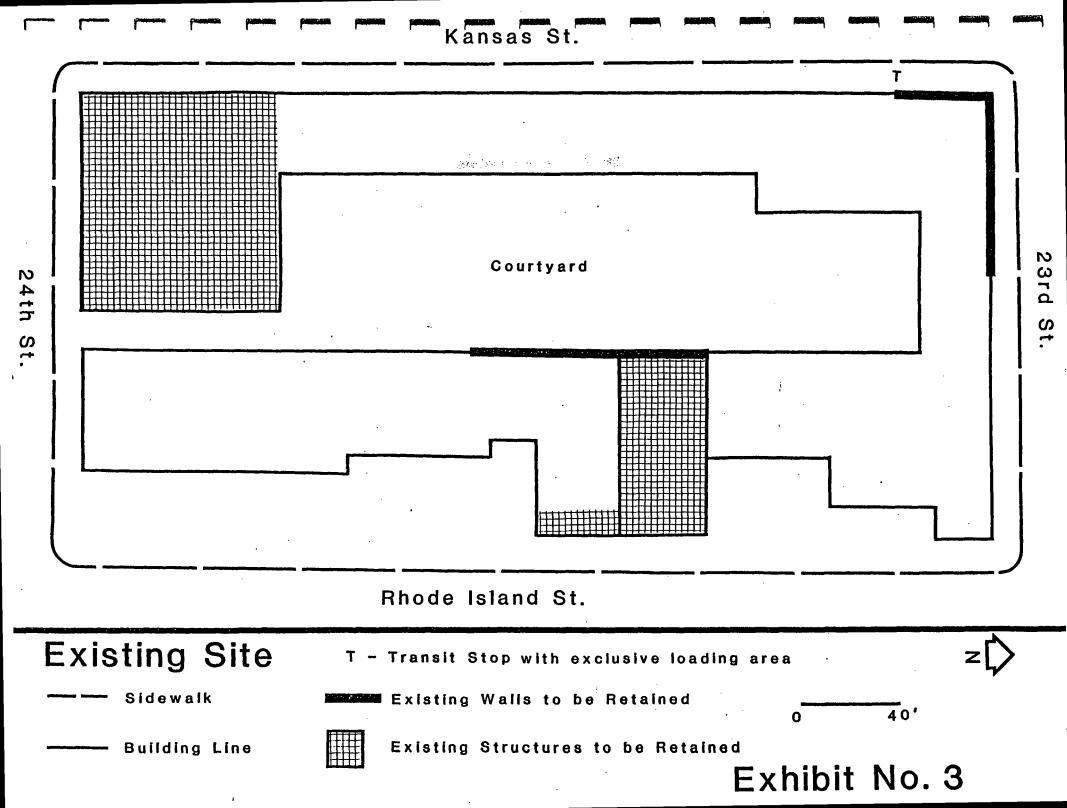
The project would consist of 132 condominiums, 8,500 square feet of neighborhood-oriented commercial establishments and 161 parking spaces. Ninety-five new condominiums would occupy 104,700 square feet on four levels (34,400 sq.ft. of site), and 34,980 square feet in existing buildings (5-story warehouse and garage) would be rehabilitated into 37 condominiums. The development costs of the project, including demolition, are estimated at \$14,700,000 as of March, 1981. Construction costs would be about \$10.2 million of the total (see Appendix A, page 120).

The project is in an RH-2 (House, Two-Family) district, containing predominantly two-family dwellings. Project sponsor would request a zoning reclassification to RM-2 (Mixed Residential, Moderate Density). The proposed project is within a 40 X Height and Bulk District, which limits development to a height of 40 feet and sets no bulk limits. These limits would not apply to the existing 60-foot warehouse.



Site Location

0 600



The proposed project would consist of 4 stories of construction and parking and commercial development at the Kansas Street grade, below a first floor common to the entire project. The interior of the existing, approximately 60-foot building at Kansas and 24th Streets would be remodeled. The penthouse on this building would be removed. The 24th Street elevation of the project (Exhibit 6, page 10) shows the gradient along that side of the proposed project. Due to the site slope, there would actually be 3 different "first floors": on Kansas Street (the lowest); on 24th Street; and on Rhode Island Street (the highest). These differences in elevation, plus the nature of the surrounding development fronting each street, have resulted in different architectural treatments of the elevations.

The project sponsor's first choice for the commercial space would be a grocery. The commercial space may be subdivided into 2 or 3 units. Tenants which would be considered include cleaners, laundromat, beauty parlor or neighborhood restaurant. Potentially disturbing uses such as a disco or bar would be excluded. The condominium agreements would include an indication that the commercial uses would be limited to neighborhood—oriented businesses which would not produce noise or fumes or otherwise interfere with the residential character of the project.

The Kansas Street side of the project would face the James Lick Freeway. This side of the project has been designed to minimize residents' exposure to the noise and air pollutants from the Freeway (Exhibit 13, page 20 shows proximity of project to Freeway). The Rhode Island Street side of the project (Exhibit 4, page 8) would front on a 2- to 3-story residential block. On 23rd Street (Exhibit 5, page 9) the project would face a ground floor grocery store with residential units and 3- to 4-story residential structures. On 24th Street (Exhibit 6, page 10) the project would face 2-story residential structures. Plans for each of the floors of the proposed development are shown in Exhibits 7-11, pages 11-15. Existing buildings to be retained are indicated on the elevations.

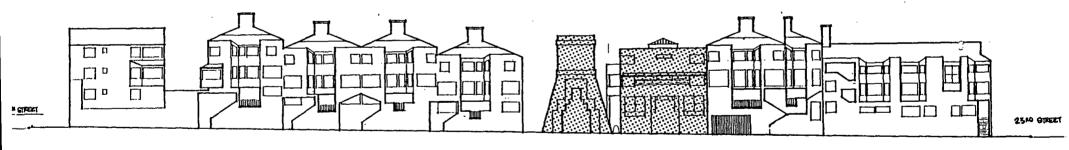
The building would be around the perimeter of the site, surrounding common open space which may include a swimming pool.

There are no landmarks, either designated or nominated, on the site.

Units would be in the mix of sizes and prices shown in Table 1, page 16.



Kansas Street



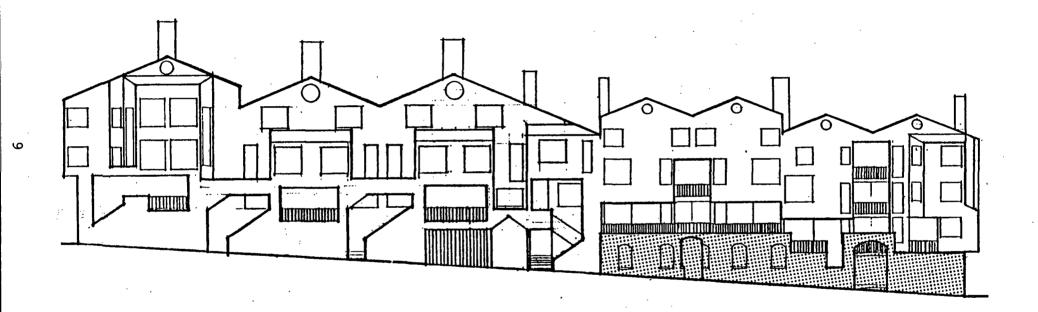
Rhode Island Street

Elevations



existing areas to be retained



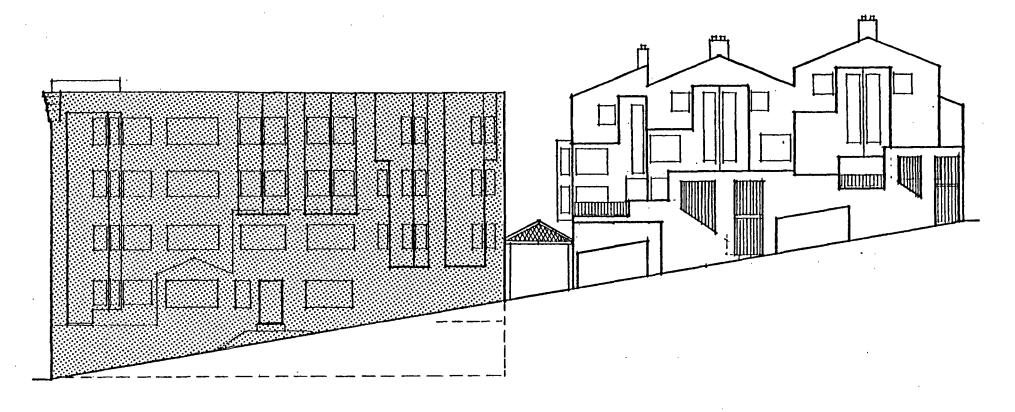


23rd St. Elevation



existing areas to be retained

0 20'



24th St. Elevation



existing areas to be retained

0 20'

Rhode Island Street

Kansas Street Grade Plan

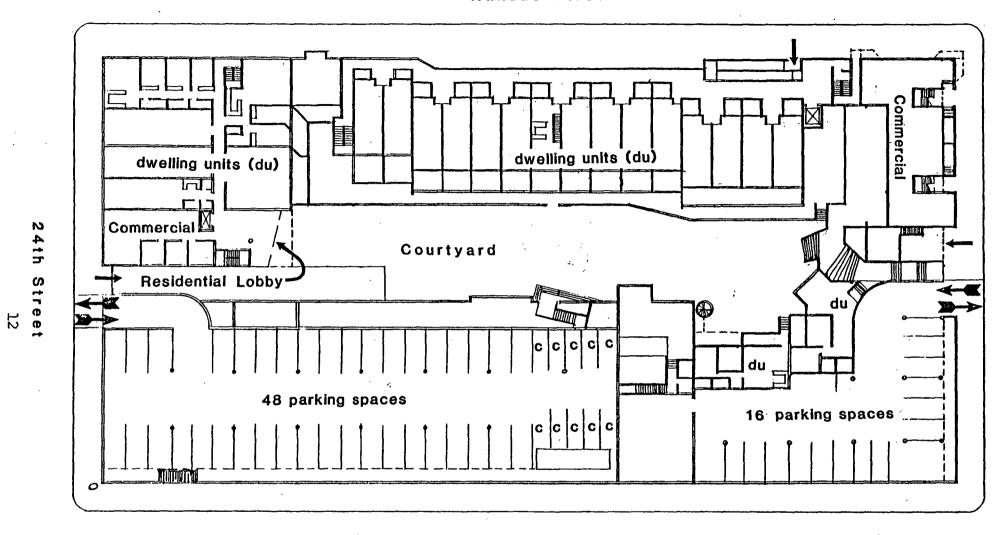
>> auto entry

24th Street

C - compact auto

0 45'

z [>



Rhode Island Street

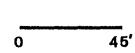
First Floor Plan

auto entry

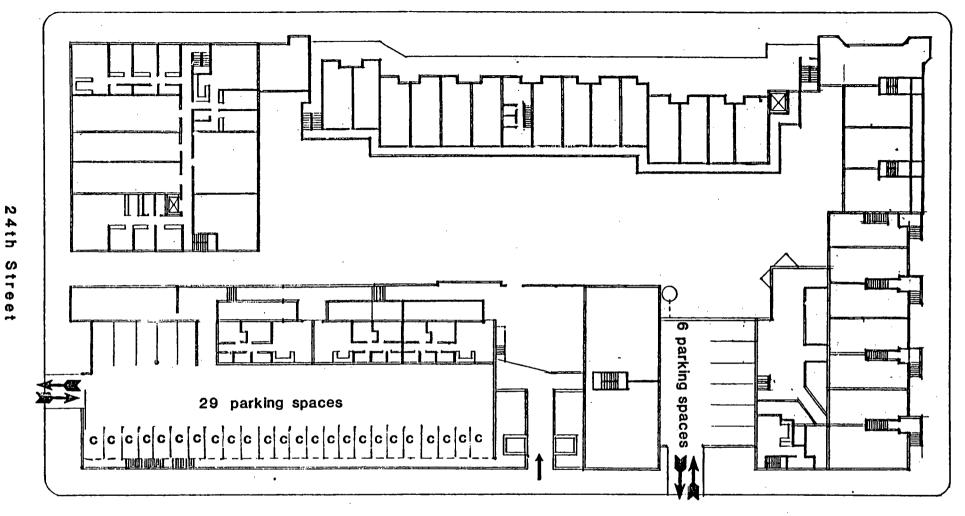
415

pedestrian entry

C - compact auto







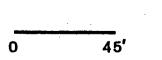
Rhode Island Street

Second Floor Plan

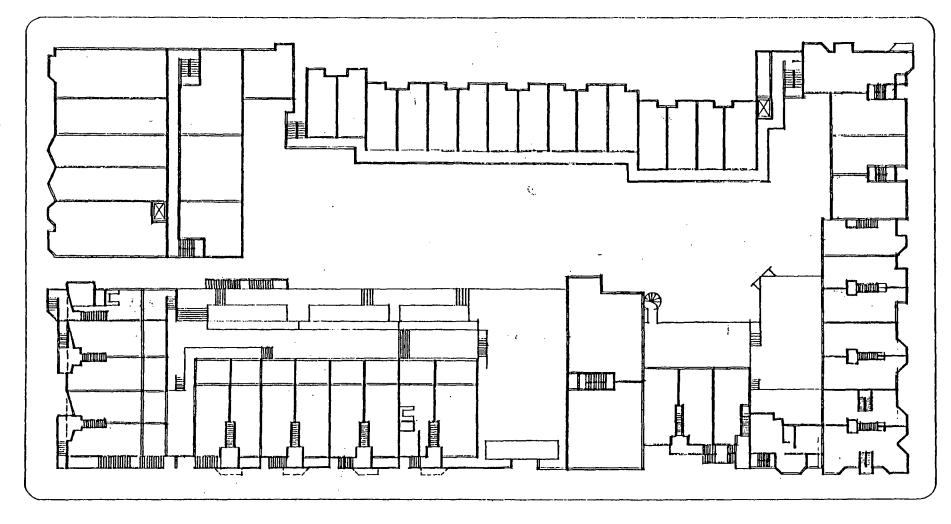
auto entry

pedestrian entry

C - compact auto







Rhode Island Street

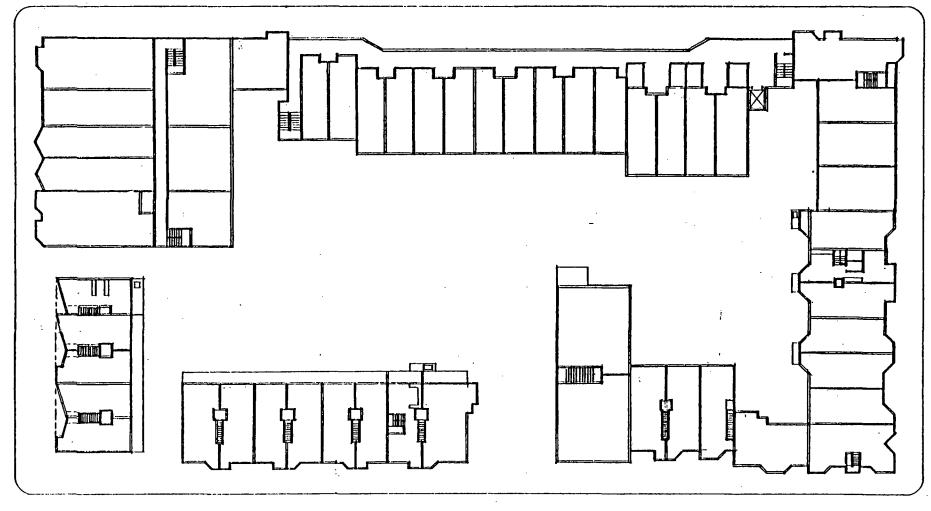
Third Floor Plan

24th

Street

0 45'





Rhode Island Street

Fourth Floor Plan

24th

Street

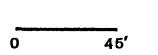




TABLE 1. UNIT TYPES AND PRICES

Unit Types	No. <u>Market</u>	of Units Subsidized*	Expected Prices (March 1981 Dollars)
Studios One-Bedroom Two-Bedroom Three-Bedroom	13 29 81 9 119	1 3 8 1 13	\$ 99,000 - \$113,000** \$ 71,000 - \$ 93,000 \$ 99,000 - \$167,000 \$172,000 - \$209,000
Total Units		132	

^{* 10%} of the units would be subsidized if a subsidy is available; all units would be market-rate without subsidy. The maximum price for a subsidized unit would be about \$85,000, regardless of size. See further discussion of housing subsidies on pages 30 to 34.

The proposed project would take 21 months to complete, from the time building permits are issued. Demolition would take approximately 3 months. New construction and initiation of rehabilitation would take approximately 15 months. Completion of rehabilitation and remodeling would take approximately 3 months.

D. Required Project Approvals

Certification of the Final Environmental Impact Report by the City Planning Commission is required before any other approval actions may take place. The main project approval action would be zoning reclassification and the Conditional Use Authorization.

Zoning reclassification from RH-2 (Residential Two-Family District) to RM-2 (Residential, Mixed District, Two-Family) would be required for the housing density proposed. Approval of a

^{**} Prices of studio units would exceed prices of 1-bedroom units because the studio units would be larger.

zoning change requires a public hearing and approval by the Planning Commission and adoption by the Board of supervisors, pursuant to Section 302 of the City Planning code.

The project is proposed for Conditional Use authorization (approvable by the City Planning Commission) as a Planned Unit Development (PUD), under the provisions of Sections 303 and 304 of the Planning Code. According to the Code, PUD procedures

"are intended for projects on sites of considerable size, developed as integrated units and designed to produce an environment of stable and desirable character which will benefit the occupants, the neighborhood and and the city as a whole. of outstanding overall design, complementary to the design and values of the surrounding area, such a project may merit a well reasoned modification of certain of the provisions contained elsewhere in this Code." (Section 304(a)) A PUD must meet the criteria for Conditional Uses in Section 303(c) and elsewhere in the Planning Code. In addition, it must promote applicable objectives of the Master Plan, provide adequate off-street parking and usable open space at least equivalent to Code required open space, and meet other requirements of Planning Code Section 304(d). The project's proposed commercial space also requires Conditional Use approval for a new non-residential use in an RM district. This approval would be sought as part of the Conditional Use process for the PUD. Conditional Use approval may be appealed to the Board of Supervisors.

The project must obtain approval as a condominium subdivision, requiring a finding by the Planning Commission that the project would be in conformity with the City's Master Plan (San Francisco Subdivision Code, Section 1332) and approval by the Department of Public Works.

Subdivisions of 50 or more units must provide a minimum of 10% low and moderate income housing, as defined in Section 1341(c) of the San Francisco Subdivision code, unless the Planning Commission finds that public subsidies are not available (Section 1341(a)).

Notes: Project Description

1. Both are located at 300 Montgomery Street, San Francisco, Calfornia, 94104.

III. ENVIRONMENTAL SETTING

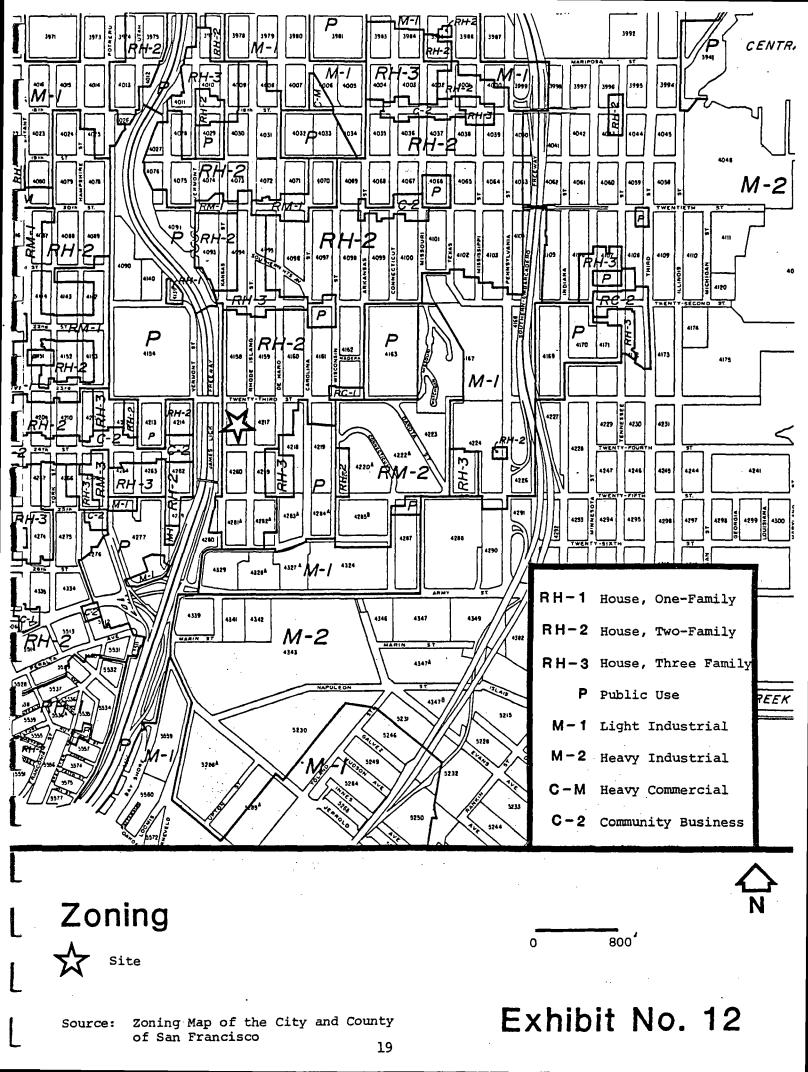
A. Land Use and Zoning

The project block is surrounded on 3 sides by an RH-2 (House, Two-Family) zoning district; two-family homes predominate. To the west is the James Lick Freeway, see Exhibit 12, page 19. With the exception of a grocery store, beneath 6 residential units, on the northeast corner of Kansas and 23rd Sts., a possible industrial use in a duplex on Kansas St. in the block north of the site (posted with warning and requirements for special clothing), and the Freeway both of which are shown in Exhibit 13 (page 20), surrounding land use on the east side of the Freeway is residential. Exhibit 14 (page 21) shows the land uses surrounding the site.

The neighborhood is predominantly made up of 2- and 3-story row houses (Exhibit 15, page 22). Eucalyptus trees line the western edge of Kansas Street along the right-of-way of U.S. 101 (James Lick Freeway), which is approximately 100 feet from the project site. San Francisco General Hospital is approximatley 400 feet from the site across the Freeway.

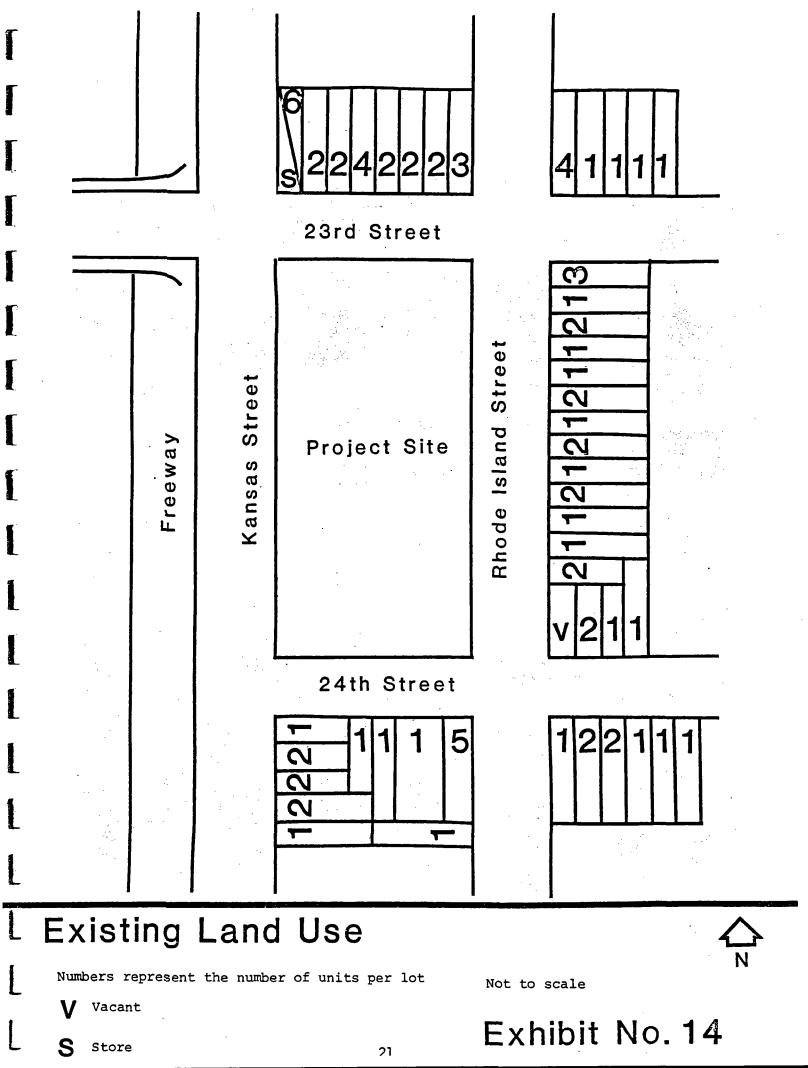
The site contains a complex of 16 structures. The largest building, the warehouse structure, which would be retained, occupies the southwest corner of the site at 24th and Kansas Streets (see Exhibit 6, page 10). Other structures to be retained are the garage, chimney and retaining walls on Rhode Island and the first floor brick wall at the corner of 23rd and Kansas Streets, as shown on Exhibits 4 and 5, pages 8-9.

The so-called Wisconsin Street Housing Site, in the area generally between DeHaro, 23rd, Wisconsin, and 26th Streets, has been proposed for development for many years by various sponsors. The site was used for World War II housing which was demolished and cleared in the 1960's. Exhibit 16 (page 23) shows the relationship of the Wisconsin Street Site to the proposed project. The closest part of the Wisconsin site, at DeHaro and



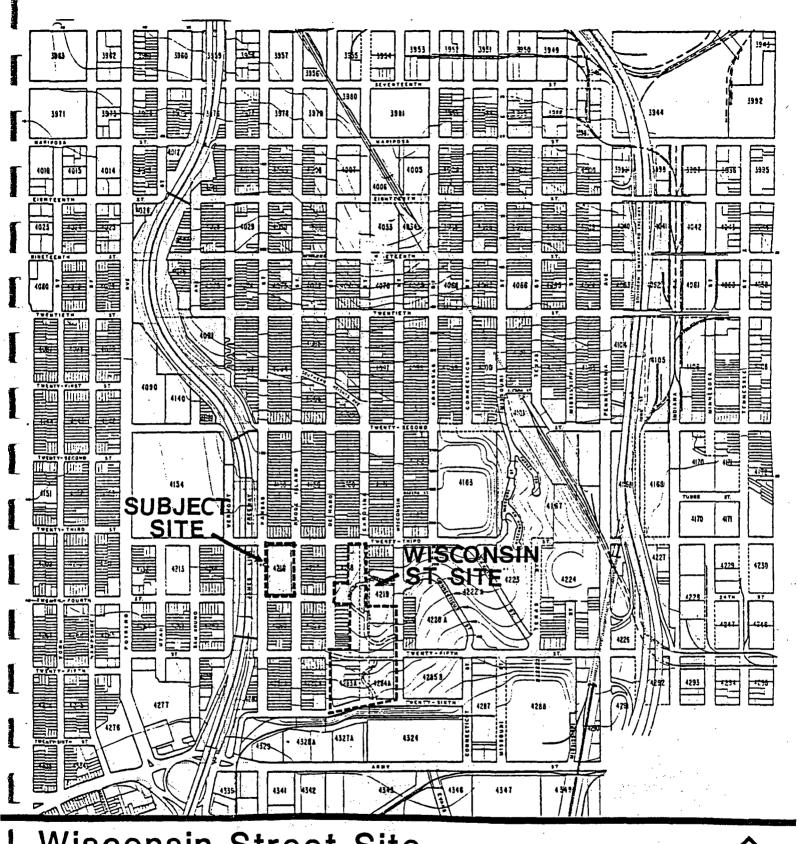












Wisconsin Street Site



600'

24th Streets, is a block away. The Potrero Hill Neighborhood Improvement Plan recommends development of 175 family units, "including a substantial amount of dwelling units for lower income households" for the Wisconsin site. In February 1981 the Board of Supervisors initiated a proposal to rezone the property from P (Public) to RH-2; environmental review, City Planning Commission approval and Board adoption are expected to occur during 1981. There is no presently active development proposal for this site.

City Planning files indicate several other recent or proposed projects in the vicinity of the proposed project. In 1978 an apartment project, one half block from the proposed project, was completed at 2120 24th Street and 3 duplexes were completed at 205-207 Arkansas Street, 9 blocks northeast of the proposed project. Three warehouse buildings have been proposed for 1453 25th Street, 7 blocks east of the project. (Building Permit Application Number 7812869 and Office of Environmental Review Case Number EE 78.420).

The nearest RM-2 (Residential, Mixed District, Moderate Density) zoning, is 3 blocks from the site, east of Wisconsin Street. RH-3 (Residential, House, Three-Family) Districts are a block north and a block southeast of this site. A small RC-1 (Residential, Commercial Combined, Low Density) area is 3 blocks east at 23rd and Wisconsin, adjacent to the RM-2 area. A C-2 (Community Business) district extends along 24th Street, west of the Freeway and M-1 (Light Industrial) districts are found about 2400 feet east and 2 blocks south of the site. Although there is a mix of zoning and land use in the area, the site is surrounded by residential uses.

Notes: Land Use and Zoning

1. San Francisco Department of City Planning, <u>Potrero Hill</u>
<u>Neighborhood Improvement Plan</u>, endorsed by the Planning Commission, 3 August 1978, Resolution 8036, page 14.

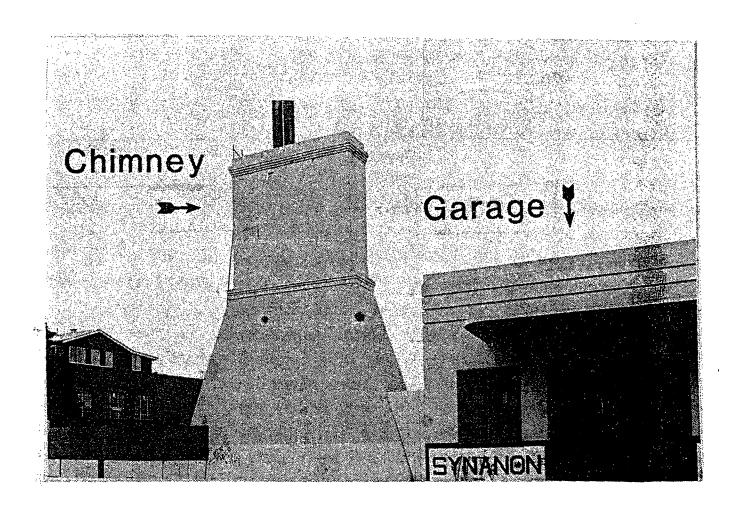
B. History of the Site

The San Francisco Pioneer Varnish Works, owned by the Hueter Bros. & Co. (Gustave and Ernest L. Hueter), dealers in paints, oils, and artists' materials, was established in 1858. Hackett (1884) states that the factory "is located on Sonomal' Street, between Twenty-third and Twenty-fourth Streets, and covers one city block with its buildings and accessions, erected after the latest European plans... The trade of this house is very great, extending so far as Sydney and Melbourne. At the World's Fair in 1879, at Sydney, its varnishes were awarded the highest premiums." A chimney built as part of the paint manufacturing plant would be retained in the proposed project (Exhibit 17, page 26). It is listed in the San Francisco Department of City Planning's 1976 Architectural Survey, an inventory of structures of architectural significance. The chimney is rated "3" in this inventory. 3

In 1906 the northern half of the site was owned by the Hueter Bros. and the southern half was owned by E. L. Hueter and J. J. Wentworth.⁴ The warehouse at 24th and Kansas Streets, which would be retained in the proposed project, was designed by W. H. Ellison, Consulting Engineer, then of 369 Pine Street in San Francisco and was built by Barrett and Hilp in the twenties.⁵

National Lead Company (Dutch Boy, Inc.) purchased the site in 1930 and continued paint manufacture until the site was acquired by the private Synanon organization in 1971. Synanon Inc. used the site as San Francisco work headquarters and residential facility. Synanon facilities included various workshops, printshops, automotive repair shops and other work areas. Synanon sold the site to the project applicant in early 1980. There is currently no authorized activity on the site.

Prior to the present RH-2 zoning the site was zoned R-3 which permitted one dwelling unit per 800 square feet of lot. Under R-3 zoning 100 units could have been built on the site. The paint manufacturing plant was a nonconforming use with a 2 May 1980 termination date.



Chimney and Garage to be Retained

26

Exhibit No. 17

Notes: History of the Site

- 1. Street names and some street alignments changed in this area about the turn of the century. It is not certain whether this refers to the present site or a block further east.
- 2. Hackett, Fred, H., editor, <u>Industries of San Francisco</u>, Payot, Upham & Co., Publishers, San Francisco, 1884, pp. 122-3 (Available at San Francisco Public Library).
- 3. Jonathan Malone, Administrative Assistant, Landmarks Preservation Advisory Board, personal communication, 21 January 1981. Each structure is numerically rated according to its overall architectural significance. The ratings range from a low of "0" to a high of "5". Factors considered include architectural significance, urban design context, and overall environmental significance. The architectural survey resulted in a listing of the best 10% of San Francisco's buildings.
- 4. The Hicks-Judd Company, The San Francisco Block Book, 4th Edition, 1906. (Available at San Francisco Public Library.)
- 5. San Francisco Department of Public Works, Central Permit Bureau, Building Permit filed 23 April 1923.

C. Transportation

Street Characteristics. Major thoroughfares nearest the site are Potrero Ave., 4 blocks west, and Army St., 3 blocks south. The site is adjacent to the James Lick Freeway (U.S. 101) with connections north and south at Army St., about 1000 feet south of

- the site. The connection from the south does not allow left
- turns from Army St. onto Vermont St. Therefore, freeway access from the south is more convenient at Mariposa St., from the Vermont St. exit 5 blocks north of the site, or from the Army St. exit (west to Potrero Ave., north on Potrero, and east on 23rd. St. to the site).

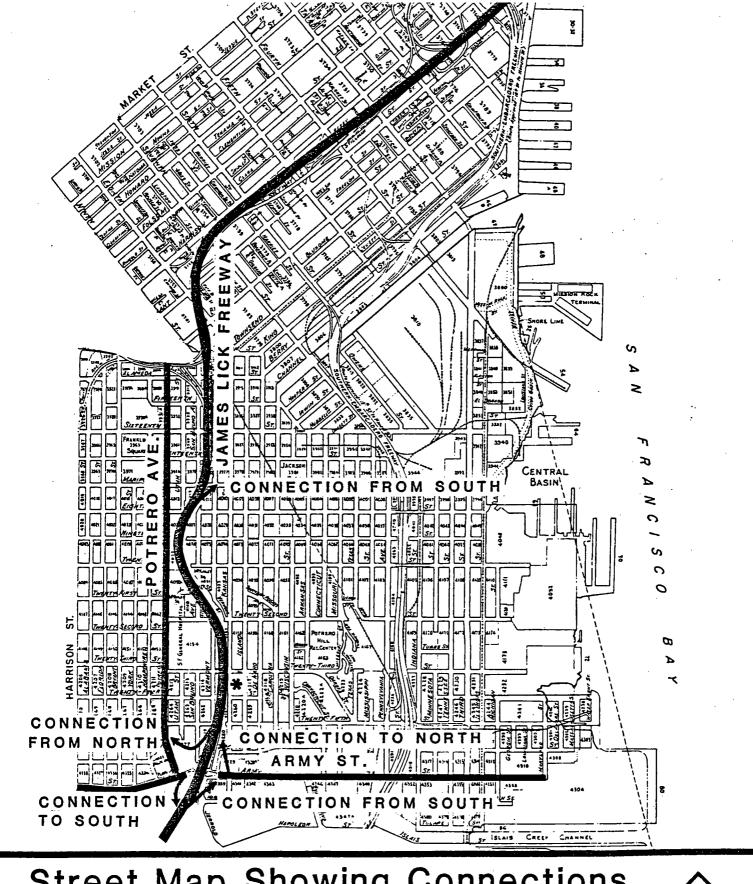
The characteristics of surrounding streets are given in Table 2.

TABLE 2	:	STREET	CHARACTERISTICS
---------	---	--------	-----------------

Street	Right of Way	Travel Lanes	Parking Lanes	Sidewalks		
23rd St.	66'	2 @ 12'	2@9'	Both sides, 12'		
Rhode Island St.	80 1	2 @ 15'	2 @ 10'	Both sides, 15'		
24th St.	66'	2 @ 12'	2 @ 9'	Both sides, 12'		
Kansas St.	80 '	2 @ 15'	2 @ 10'	West side, 5'		
		,	·	East side, 15'		

Traffic volume on 23rd St. is about 3070 vehicles per day, 2 on Rhode Island St. about 750 vehicles per day, on 24th St. about 100 vehicles per day and on Kansas St. about 2100 vehicles per day. 3

There are 103 on-street parking spaces on the streets bounding the project. There are an additional 277 spaces within one block of the site on streets radiating from the project corners. During counts by Bendix Environmental Research, Inc. on 12 May 1981, 66 or 64% of the perimeter spaces were filled and 153 or 55% of the spaces on radiating streets were filled. Few cars were observed parking or leaving during the 3-6 pm period.



Street Map Showing Connections To & From James Lick Freeway

 $\langle \rangle$

* Project Site

Freeway

Major Thoroughfare

0 1200'

Exhibit No. 18

The nearest signalized intersection is at 23rd and Potrero Sts., 4 blocks west, which operates at level of service C or better in the evening peak hour.

There are no transit preferential lanes on any of the streets surrounding the site.

Transit. Four MUNI bus routes run adjacent to or near the site: 53-Southern Heights, 35-Eureka, 19-Polk and 47-Van

 Ness (see Exhibit 19, page 31). The 19-Polk and 35-Eureka lines cross over the James Lick Freeway on the 23rd St. overpass, an entry route to the Potrero Hill area.

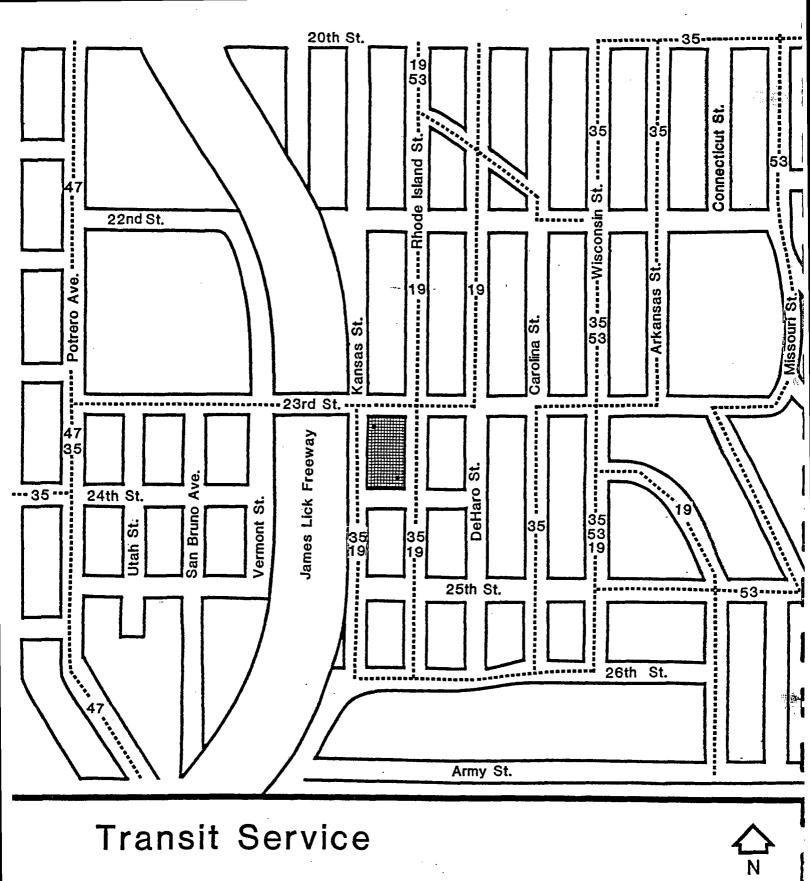
Pedestrians. Pedestrian volume on the sidewalks surrounding the site are relatively low. The highest volumes occur at the corner of 23rd and Kansas during the peak (5:00 - 6:00 p.m.) hour. Pedestrian movement is at a level of service A (less than 60 pedestrians per hour on 23rd and 24th Sts. and less than 75 pedestrians per hour on Kansas and Rhode Island Sts).8

<u>Bicycles</u>. The Transportation Element of the Comprehensive Plan designates no streets surrounding the site as bicycle routes. The closest designated route is on Bryant St., 7 blocks west.

<u>Parking</u>. Except for the facilities at San Francisco General Hospital, a block from the site across the Freeway, there are no off-street parking lots within 1/4 mile of the site. There are no special loading zones on any of the streets surrounding the project except for a bus stop on Kansas at 23rd as shown on

Exhibit 3, page 6.

There are 103 on-street parking spaces on the streets bounding the project. There are an additional 277 spaces within one block of the site on streets radiating from the project corners. During counts by Bendix Environmental Research, Inc. on 12 May 1981, 66 or 64% of the perimeter spaces were filled and 153 or 55% of the spaces on radiating street were filled. Few cars were observed parking or leaving during the 3-6 p.m. period.



---19 --- MUNI Bus Routes



Project Site

Bus Stop

Not to scale

Exhibit No. 19

These parking spaces are currently used by neighbors or by commuters, primarily San Francisco General Hospital employees. For all streets surrounding the site, parking occupancy averages approximately 50%, ranging from 90% on Kansas St. to 10% on Rhode Island St. Field observation of drivers using local parking spaces indicate that approximately 50% of daytime users are generated by San Francisco General Hospital (SFGH) (8:00 a.m. - 6:00 p.m.) and approximately 20% are generated by SFGH in the evening hours. 9

Notes: Transportation

- 1. Major Thoroughfare: A cross-town street whose primary function is to link districts within the City and to distribute traffic from and to the freeways; a route generally of citywide significance; as identified in the Thoroughfare Plan of the Transportation Element of the San Francisco Comprehensive Plan.
- 2. This may be compared to a traffic count taken on 5 October 1976 at the intersection of 23rd and Vermont Streets. Increasing the 1976 traffic count by 2% per year per information from Nelson Wong, San Francisco Department of Public Works, Traffic Engineering Division, telephone conversation, 29 January 1981, traffic at that intersection would be expected to be 5700 vehicles per day.
- 3. EIR Consultants, Ted Kreines, and Richard K. Hopper, P.E., field observations, 4 February 1981. Traffic counts on these 4 streets were taken for the evening peak hours (4:15 to 5:15 p.m.). This evening peak hour is assumed to be 10% of the total daily traffic. This assumption is based on data from the San Francisco Department of Public Works, Traffic Engineering Division, Map, Evening Peak Hour Traffic Flow on Principal Streets and Highways, 1974-1976 and Map, Twenty-Four Hour Traffic Flow on Principal Streets and Highways, 1974-1976.

- 4. Calculation method from: Institute of Transportation Studies, "Fundamentals of Traffic Engineering," 8th Edition, 1973, p. 7-7.
- 5. EIR Consultant, Ted Kreines, field observation, 4 February 1981.
- 6. Scott Shoaf, San Francisco Department of Public Works, Traffic Engineering Division, telephone conversation, 3 July 1980 and reference 4 above.
- 7. 1.3 pedestrians per minute: field observation by Ted Kreines, 4 February 1980.
- 8. "Pedestrian Planning & Design," John J. Fruin, Metropolitan Association of Urban Designers & Environmental Planners, Inc., New York, 1971, p. 78.
- 9. EIR Consultants Richard K. Hopper, P.E., 7 July and 15 July 1980 and Ted Kreines, 4 February 1981.

D. Noise

Acoustical measurements were taken at three locations (shown on site map, Exhibit 20, page 34) to quantify existing noise conditions at the site area: 1 on Kansas Street approximately 100 feet from the near lane of traffic on Route 101; in the courtyard in the center of the existing building complex on the site; and on the west side of Rhode Island Street between 23rd and 24th Streets. The three positions were chosen as representative of the noise environment of the block: noise levels at point 1 represent exposure of project units which would front toward the Freeway; point 2 represents levels within the proposed courtyard; and point 3 represents noise exposure of the nearby residential area and units which would front on Rhode Island. A summary of the noise measurements is given in Table 3 (page 35). The noise

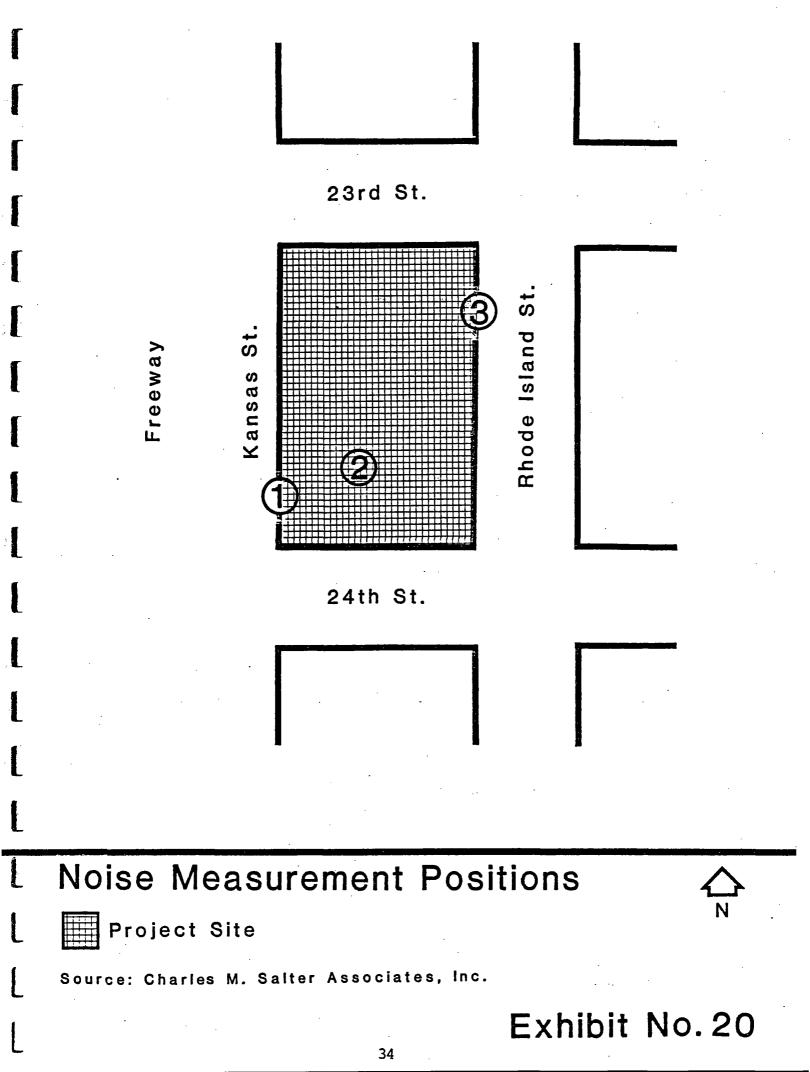


TABLE 3: AMBIENT NOISE MEASUREMENTS

Location of Measurement	Day and Time	<u>L</u> 1	<u>L₁₀</u>	L ₅₀	L ₉₀	<u> 199</u>	Leq	Comments
Site 1. On Kansas Street, 60 feet from building corner at 24th Street, on 3rd Floor of building, 1 meter from facade, 100 feet to nearest lane of freeway.	18 July 1980 5:10-5:20 pm	79	77	76	74	74	76	8-lane freeway depressed 20 feet below grade.
Site 2. In courtyard 120 feet from building edge at 24th Street and 120 feet from building edge at Kansas Street, 2 meters from ground.	18 July 1980 5:30 pm		57	57	55	 I	56	Steady noise from freeway through gate/entry on Kansas Street
Site 3. Near curb toward Rhode Island Street 60 feet from 24th	18 July 1980 5:50 pm	85	69	60	56		70	5 minute sample with bus.
Street building edge, 15 feet from building facade.			64	60	58		61	5 minute sample without bus.

The L_{10} , L_{50} and L_{90} are statistical descriptors indicating the noise levels which were exceeded 10, 50 and 90 percent of the time period, respectively. The L_{eq} is the equivalent sound level and is an alternative method for describing the average noise level.

-- No measure taken.

Source: Charles M. Salter Associates, Inc.

environment is dominated by noise from eight lanes of freeway traffic, and by bus traffic noise on Rhode Island, 23rd and 24th Streets. The acoustical consultant characterizes the area as "generally noisy."²

The Environmental Protection Element of the Master Plan predicts a background noise level of 65 L_{dn}^3 for this site. Actual measurements showed the site to be noisier on Kansas Street, estimated at 75 L_{dn}^4 on the basis of short-term measurements, because this side of the site is next to the Freeway. In the courtyard the L_{dn} drops to about 55-60 dBA; on the Rhode Island side it is 60-65 dBA, with peak noise at 85 dBA when buses pass by. 5

Notes: Noise

- 1. Measurements made by Charles M. Salter Associates, Inc., under contract to EIR consultant Kreines and Kreines.
- 2. Acoustical Consulting Report for 2222 Limited EIR, Charles M. Salter Associates, Inc., 28 August 1980. Available for public review at the City Planning Office of Environmental Review, 45 Hyde Street, Room 319.
- 3. Decibel: A logarithmic unit of sound energy intensity. Sound waves, traveling outward from a source, exert a force known as sound pressure level (commonly called "sound level"), measured in decibels.
 - dBA: Decibel corrected for the variation in frequency response of the typical human ear at commonly-encountered noise levels.
 - Ldn: An averaged sound level measurement, based on human reaction to cumulative noise exposure over a 24-hour period, which takes into account the greater annoyance of nighttime noises. Noise

between 10 p.m. and 7 a.m. is weighted 10 dBA higher than daytime noise.

- 4. For the purposes of this report L_{dn} has been considered to be equivalent to CNEL. CNEL = Community Noise Equivalent Level; similar to L_{dn} except that sound level measurements taken between 7 p.m. and 10 p.m. are weighted 5 dBA higher than daytime sounds in addition to the 10 dBA 10 p.m. to 7 a.m. weighting.
- 5. L1: 85 dBA, the noise level exceeded during the 1% noisiest time.

E. Topography and Geology

The site is bounded by 4 streets with varying slopes: 24th Street has a slope of 13%; 23rd Street has a slope of 7%; Kansas Street has a slope of 4%; and Rhode Island Street has a slope of 1%.

The site has a cross-slope of 5.2%, measured from the north-west to southeast corners, representing a grade change of 24 feet within a distance of 452 feet.

The site slopes down to the west at a ratio of approximately 6 horizontal to 2 vertical (6:1). Borings drilled by the soils engineer indicate that the site is generally underlain by 2 to 10 feet of fill. Fifteen feet of sand fill were found on the east side of the site. Under the fill is clay, sand, and gravel; below these are shale and serpentine rock. Groundwater level is below the level of the borings.

The fill would not provide adequate foundation support, and so would have to be removed down to the natural soil level, to provide a suitable base for project building foundations.

The San Andreas, Hayward, and Calaveras earthquake faults are 7 miles southwest and 12 and 20 miles northeast of the site,

respectively.² The soils on the site are not subject to lique-faction³ or settlement in case of an earthquake.

Notes: Topography and Geology

- 1. This section is based on the 17 November 1980 report by Warren Wong (California license No. CE 25777), Geo/Resource Consultants for project sponsor: "Geotechnical Investigation, Proposed Potrero Hill Housing Development, 24th and Kansas Streets, San Francisco, California."
- 2. A map showing the location of these faults with respect to San Francisco can be found on page 48 of Final EIR EE 79.57, Daon Building, San Francisco City Planning Commission, 12 June 1980, and is hereby incorporated by reference. That EIR is available for public review at the Department of City Planning, Office of Environmental Review, 45 Hyde Street, Room 319.
 - 3. Liquefaction: Earthquake-induced transformation of a stable granular material, such as sand, into a fluidlike state, similar to quicksand.

F. Plants

The site is urbanized. Three, 8-inch diameter eucalyptus trees, are growing on the site along the Rhode Island Street wood fence. There are 7 street trees in sidewalk planters along 24th Street, and one in a sidewalk planter on 23rd Street.

IV. ENVIRONMENTAL IMPACT OF THE PROPOSED PROJECT

A. Land Use and Zoning

Rezoning would be required in order to permit the proposed 132 units on this site. Table 4 shows the density which could be permitted by various zoning districts on this 80,000-square-foot site. Present RH-2 zoning would permit 53 units, and RM-2 (proposed) or RC-2 zoning would permit 133 units. Thus, the project would include 80 more dwelling units than presently allowable. RM districts allow more variety of building sizes and designs than RH districts. According to Planning Code Section 206.2, RM districts "...are intended to recognize, protect, conserve and enhance areas characterized by a mixture of houses and apartment buildings, covering a range of densities and building forms...and contain supporting non-residential uses." New non-residential uses in RM districts are permitted with conditional use authorization. districts are characterized by structures combining residential and first floor, neighborhood-serving commercial uses, with less of a rear yard requirement than comparable RM districts. proposed project would have residential units over commercial space. As the housing over a grocery on the north side of Kansas and 23rd is the only other such arrangement in the immediate neighborhood, RC zoning would not be as likely to be recommended or approved as would RM zoning. Project sponsor proposes to apply for RM-2 zoning with a conditional use authorization for the commercial space. Some of the units would have private terraces.

RM-2 districts require 80 square feet per unit of private usable open space, or 107 square feet of common usable open space per unit. The project would provide 29,160 square feet of common usable open space, or about 175 square feet per unit.

New construction would comply with the 40-foot height limit. The sponsor originally proposed to renovate the penthouses on top of the building at 24rd and Kansas Streets. No construction permit appears to have been issued for these penthouses. As they were constructed without a permit, they must be demolished rather than renovated. The main portion of the building, about 60 feet tall on the Kansas Street frontage, was constructed pursuant to a 1923 building permit application and, therefore, present height limits do not apply.

TABLE 4. ALLOWABLE HOUSING DENSITY BY ZONING DISTRICT

	District	Required sq. ft. per unit l	Maximum number of units
RH-2,	Residential, House District, Two Family (present zoning)	1500 ²	53
RH-2,	P.U.D.3	up to 1000 minus 1 unit	79
RH-3,	Residential, House District, Three Family	10001	80
RM-1,	Residential Mixed District, Low Density	800	100
RC-1,	Residential-Commercial Combined District, Low Density	800	100
RC-2,	Residential-Commercial Combined District, Moderate Density	600	133
RM-2,	Residential Mixed District, Moderate Density (proposed zoning)	600	133
RM-2,	P.U.D.3	up to 400 minus 1 unit	199
RC-3,	Residential-Commercial Combined District, Medium Density	400	200
RM-3,	Residential Mixed District, High Density	400	200
RM-3,	P.U.D.3	up to 200 minus l unit	399

¹ There are 80,000 square feet in the proposed site.

 $^{^{2}}$ Development at this density requires conditional use permit.

³ P.U.D. = Planned Unit Development, requiring conditional use permit.

B. Historic Structure

The chimney, described on page 25, would be retained as a symbol of the long history (over 100 years) of industrial use of the site.

C. San Francisco Comprehensive Plan and Other City Policies

This EIR section compares the proposed project with the Residence and Urban Design elements of the San Francisco Master Plan. Other Master Plan elements, such as Transportation, are discussed in the appropriate sections of this EIR.

Residence Element. The project would comply with Objective 2, Policy 1 of the Residence Element, "In existing residential neighborhoods, ensure that new housing relates well to the character and scale of surrounding buildings and does not reduce neighborhood livability," to the extent that the design succeeds in its intent to relate to development across the street. The scale of the proposed project would be larger than that of the surrounding residential development. The most massive element in the proposal is the existing building at Kansas and 24th Streets which is to be renovated.

The project would comply with Objective 2, Policy 2, "Encourage the conversion of underused non-residential land to residential use..." by converting an unused industrial site in a non-industrial area to residential use.

The project would comply with Objective 2, Policy 4, "Encourage construction of a variety of units suited to the needs of households of all sizes," by providing a mix of sizes of units from studios to 3-bedroom units.

The project would comply with Objective 3, Policy 2, "Allow small-scale non-residential activities in residential areas where they contribute to neighborhood livability," by providing pedestrian and neighborhood-oriented retail stores in an area where, except for one grocery, the nearest shopping area is on the other (west) side of the Freeway.

Objective 4, Policy 1, states, "Preserve and expand the supply of low and moderate income housing." The project might not comply with this policy unless a subsidy is available.

Urban Design Element. The project would comply with Objective 2, Policy 4 of the Urban Design Element, "Preserve notable landmarks and areas of historic architectural aesthetic value, and promote the preservation of other buildings and features that provide continuity with past development," to the extent feasible, by preserving the incinerator and those buildings and walls that are structurally safe and appropriate for reuse (listed in the project description, page 4).

The project would comply with Objective 3, Policy 5,

"Relate the height of buildings to important attributes of
the city pattern and to the height and character of existing
development," and Policy 6, "Relate the bulk of buildings to
the prevailing scale of development to avoid an overwhelming
or dominating appearance in new construction," to the extent
that it would preserve the present height and bulk pattern and
perimeter development configuration of the present site development, although buildings on the site are taller and more
massive than the surrounding residential development. (They
are not as large-scale as the San Francisco General Hospital
buildings about a block away, but those are probably less
relevant to the character of the project area, because they
are on the other side of the Freeway.)

The project would comply with Objective 4, Policy 2, "Provide buffering for residential propoerties when heavy traffic cannot be avoided," by design measures such as double-pane glass to protect dwellings on the west side of the project from Freeway impacts, and by creating a wall to buffer noise on the Kansas Street Side.

Potrero Hill Neighborhood Plan. The proposed project would comply with policies in the Neighborhood Plan, "Housing Strategy C - Increase opportunities for Potrero Hill renters to become home owners." and "Economic Development Strategy B - Promote reuse and rehabilitation of the underutilized commercial and industrial facilities as well as the retention and expansion of existing activities," by providing housing in the Potrero area on an underused industrial site. The Neighborhood Plan calls for "theme trees' along 23rd Street and street trees are also required by Section 143 of the Planning Code. No landscaping plan has been developed yet, so it is not known whether the project would comply with the "theme tree" policy.

D. Economic and Employment Impacts

Employment. Based on a March 1981 estimated construction cost of \$10,200,000, the project would generate approximately 60% of that, or \$6,120,000, for gross labor costs. 1

The completed project would create full-time employment for approximately 22 persons. Nineteen would be employed in the commercial space, based on an estimate of one person per 450 gross square feet of commercial space. 1

The condominiums would employ three persons, an on-site manager, janitor and mechanical maintenance person. Other employment would be generated for additional project management, landscape, and elevator maintenance; and security personnel. These could be part-time positions.

Revenues. Municipal tax revenues to the City and County of San Francisco generated by the proposed project have been estimated in 1980 dollars at 1980-81 tax rates (see Table 5, page 44). Total annual revenues to the City would be about \$200,000 (1980 dollars) at those rates.

The projected revenue does not include the 1-1/2% tax on selling the condominium units, a tax paid once at the time of sale of each unit. Total estimated revenue to the City from this source would be about \$240,000 (1980 dollars).

Economic Effect of Victoria Mews on Potrero Hill. The Potrero Hill Advisory Committee has requested² a study of the Victoria Mews project (bounded by 19th, 20th, Carolina and Wisconsin Sts.), comparing housing prices in that particular residential neighborhood before and after completion of Victoria Mews, in order to find out if that development caused prices on Potrero Hill to rise more rapidly than they would have otherwise. Statistical analyses of this type are difficult because of variation in size and design from one project to another which causes prices to vary and the inherent inability to obtain local

TABLE 5: ESTIMATED PROJECT-GENERATED MUNICIPAL TAX REVENUES IN 1980 DOLLARS, CALCULATED AT 1980-81 TAX RATES 1

Tax	Amount
San Francisco Property Tax	\$147,000
San Francisco Unified School District	13,000
San Francisco Community College District	1,000
BART	900
BAAQMD ²	400
Total Non-Bond Property Tax	\$162,300
Bond Retirement	39,000
Payroll	1,800
Total Annual Tax Revenue	\$203,100

Calculated on a basis of average unit price of \$123,000, \$16,200,00 = total sales price = market value; assessed value = 25% market value; \$4/\$100 assessed valuation non-bond tax rate; \$0.97/\$100 assessed valuation for bond retirement; distribution of taxes as in 1980; payroll tax calculated on the assumption that 1/2 or 11 on-site jobs would qualify for payroll tax and that average gross income would be \$15,000

information about sales uninfluenced by the presence of that project; it is thus impossible to identify what the neighborhood prices would have been without Victoria Mews.

BAAQMD = Bay Air Air Quality Management District.

Page 45 has been deleted.

- 1. San Francisco Department of City Planning, FEIR, Ocean Beach Park Estates, EE 78.178, 30 August 1979, p. 126.
- Potrero Hill Advisory Committee, special meeting, 8 July 1980.

E. Transportation

The project would generate a total of about 740 one-way vehicle trips per day, about 340 condominium-related, 370 for the commercial space, and 30 commercial/residential delivery and service trips. (See Table 7, page 47.)

1981 counts made for this EIR (discussed in Setting, page 28) agree with counts at 23rd and Vermont made by the Department of Public Works in 1976, within probable measurement error, and show that the peak hour for traffic on 23rd St. is 4:15 - 5:15 p.m. As 23rd is the busiest street in the area, project impacts on traffic flow on 23rd could potentially have the greatest effect. The peak in project generated traffic, 88 vehicles per hour, would occur later than the total traffic peak, or from 5:00 to 6:00 p.m.

During the 4:15 to 5:15 peak traffic hour the project would be expected to generate 59 trips. It is estimated that 60% of the project's 59 peak hour trips, or about 35 trips, would be added, for a traffic increase of about 7% over the present peak hour traffic volume of about 520 vehicles on 23rd Street. This increase would not change the present traffic Level of Service A (free flow).

On Kansas St. about 10 vehicles would be added to the peak hour 220, an increase of about 5% which would not affect the flow of traffic. Addition of about 5 trips to the peak hour volume of about 70 on Rhode Island and 4 trips to the peak volume of 10 trips on 24th St. would increase traffic by about 7% and 40%, respectively, and would not affect the present flow of traffic.

Intersection traffic counts and predicted volumes with the project are shown in Appendix B, pages 123-127. Intersection analysis indicates that all four project intersections would remain at Level of Service A. The Level of Service on the westbound 23rd St. approach to the Potrero Ave. intersection, 4 blocks east of the site, is B at the p.m. peak hour. This would not change with the project. As the free flow of vehicular traffic around the project would not be affected, no impacts on freedom of bus movements would be expected.

TABLE 7: AVERAGE WEEKDAY VEHICULAR TRIP GENERATION

Type of Trip	Purpose of Trip	Total Trips
Residential Auto	Work	170
Auto	Shopping	70
Auto	Other	. 100
Total Residential		340 ¹
Commercial 8,500 square feet		3702
Commercial and Residential Delivery	•	30
Service		
Total All Trips	•	740

Note: All numbers rounded off.

Source: Richard K. Hopper, P.E., Consulting Engineer

^{1 2.6} vehicle trips per unit.

^{2 44} vehicle trips per 1,000 square feet.

A proposal for development of 120 units on the former Wisconsin Housing Project site is under review by the Department of City Planning (EE 81.29). Using the same trip generation factor as for the 2222 23rd St. project (Table 7, EIR page 47), the Wisconsin St. project would generate approximately 310 trips in 24 hours compared with 740 for the project. (This assumed that there will be no commercial space in the Wisconsin St. project; commercial uses account for approximately half of the 2222 23rd St. project trips.) Assuming 12% of these trips to take place during the afternoon rush hour, about 40 peak hour trips would occur. time distribution of trips were like that of the 2222 23rd St. project, about 30 trips would occur during the afternoon peak hour in the area. If 60% of these trips were on 23rd St., about 20 trips would be added. Together with the 35 trips from the 2222 23rd St. project, this would give a cumulative increase of about 55 vehicles, an increase of 11%. This would probably change the conditions at the 23rd and Kansas Sts. intersection from Level of Service A to B during rush hour. According to the Department of Public Works definition, "Level of Service B describes a condition where the approach to an intersection is occasionally fully utilized and some delays may be encountered. Many drivers begin to feel somewhat restricted within groups of vehicles. fic operation can generally be described as very good." page 122 for other Level of Service definitions, for comparison.

The Wisconsin St. project would generate a similar number of transit trips as the 2222 23rd St. project, or a total of about 10 persons per bus. The approximately 11 empty seats remaining on these buses after allowing for patrons from the 2222 23rd St. project on these 48-seat buses would accommodate the additional passengers.

The project would generate 40 pedestrian trips during the project peak hour. If all these pedestrians were to be at the most crowded section of the sidewalk, the pedestrian count would rise from 1.3 to 2.0 per minute, with no change from the present Pedestrian Level of Service A. Pedestrians were counted as they passed a fixed observer on the sidewalk.

Field investigation indicates that buses in the project vicinity could accommodate the approximately 50 transit trips (15% of daily total) the project would generate during the peak hour. Assuming that all passengers would be evenly distributed by bus route, approximately 5 passengers (50 divided by 5 bus stops for each of the 2 routes, 19-Polk and 35-Eureka) would board or depart a bus at any single stop during the peak hour. Buses on both routes run every 10-12 minutes at peak hours. The average increase in passenger load per bus would be about 1 per stop, or a maximum of 5 for the project. Passengers going downtown may be transferring to other lines which may not have available capacity.

The existing vehicle access points on Kansas and 24th Sts. would be maintained and additional access would be added from Rhode Island, to 6 parking spaces, and access from 23rd St., to 16 parking spaces. The 24th St. entrance would lead to 77 parking spaces and the entrance on Kansas St. would lead to 62 spaces. Access to the largest parking area is from 24th St. where there is no MUNI line. During rush hour, cars entering and exiting on Kansas St. could interact with buses. The smaller parking areas accessed from 23rd and Rhode Island Sts. would have fewer such interactions.

The 132 dwelling units would require 132 off-street parking spaces and, as the Planning Code requires 1 space per 500 square feet of commercial space, 17 spaces would be required for 8,500 square feet of commercial space. Thus, the Planning Code would require 149 parking spaces. The project would provide 161 parking spaces, 12 more than required.

For planning purposes, the San Francisco Department of City Planning uses 0.78 vehicles per household.⁵ At this rate, the 132 residential units would generate a need for 103 off-street parking spaces. The Manager of Victoria Mews estimates parking space use at that project at 1.3 spaces per unit.⁶ If this rate were to apply for the new project, 132 units would generate a need for 173 spaces.

A maximum of 40 vehicles would need parking spaces during the peak hour of patronage of the commercial space. As the average duration of neighborhood commercial parking is 1/2 hour, a demand of approximately 20 parking spaces would be created by the commercial space during the peak patronage hour. Ten spaces would be needed by employees driving to work in the commercial space. The other employees would walk or use public transit.

The total demand from residents, shoppers and employees would be between 133 and 203, or from 28 less to 42 more than would be provided in the proposed project. A maximum use of one space per unit is considered reasonable by the Department of City Planning. This would result in a total demand for 162 spaces, or 1 more than provided.

On the streets bounding the project, the 3-6 pm parking demand for neighboring uses is 66 spaces which would leave 81 or 55% of the spaces for project-related parking. If the worst case demand for 42 off-site spaces should occur, this would leave 39 or 27% of the spaces available for party parking, etc. Within a 1-block radius of the site there are an additional 288 spaces. From 3-6 pm 153 or 53% are filled (field check by Bendix Environmental Research, Inc., 12 May 1981). Should parking demand from the proposed Wisconsin Street project extend as far as the area of the 2222 23rd St. project, 47% of this street parking would be available, should closer parking not satisfy the demand from the Wisconsin St. project.

The proposed development would replace 4 curb cuts with 5 curb cuts. Some of the new curb cuts would be narrower than the old curb cuts so that one additional street parking space could be provided. No off-street loading space for deliveries would be provided; none is required by the Planning Code.⁸

Notes: Transportation

- 1. This differs from the assumption of 10% of total traffic during the peak hour because it is derived for a specified project rather than for the total traffic on the street.
- 2. Based on 4 February 1981 counts previously cited.
- 3. Assumption by traffic consultant, Richard K. Hopper, P.E.
- 4. By traffic consultant, Richard K. Hopper, on 3, 7 and 15 July 1980 and by EIR consultant, Ted Kreines, AICP, on 4 February 1981.
- 5. Ed Green, San Francisco Planning Department, telephone conversation, 3 July 1980 and Chi-Hsin Shao, San Francisco Planning Department, telephone conversation, 2 September 1980, and Department of City Planning memorandum from Dave Feltham through Alan Lubliner, Project Manager, Center City Circulation Program, to Dean Macris, Director of Planning, 10 March 1981, "The latest available census data (1970) shows that auto availability per household in San Francisco is only 0.777. . . Auto available rates are generally higher than auto ownership rates."
- 6. Bob Turner, telephone conversation, 23 March 1981.
- 87. Alan Lubliner, telepone conversation, 23 March 1981.
- 8. See Sections 152 and 153.

F. Noise Impacts

1. Construction Noise

During demolition and construction of the proposed project, construction equipment noise would be expected to temporarily increase noise levels in the project vicinity. Project sponsors (conversation with developer, 21 July 1980) have estimated demolition time at 2 to 3 months, and construction and rehabilitation at approximately 18 months. The demolition methodology has not been determined. Whether wrecking ball or cranes are used during demolition, the peak sound level generated by these construction activities would occasionally reach 90-95 dBA outside residences on 23rd St. between Kansas and Rhode Island Sts., on Rhode Island St. between 23rd and 24th Sts., and on 24th St. between Kansas and Rhode Island Sts. Typically, noise levels during this phase would range from 60-85 dBA. This sound level would be about the same as existing traffic noise levels. The project haul truck route is not known, but it would probably be along Kansas Street south to 26th Street to Army Street and then to Highway 101 south. 1 Construction would be subject to the San Francisco Noise Ordinance. 2 Section 2907 Construction Equipment states,

"It shall be unlawful for any person. . . to operate any powered construction equipment. . . if the operation of such equipment emits noise at a level in excess of 80 dBA when measured at a distance of 100 feet from such equipment. . ."

No pile driving is anticipated during construction; therefore, construction noise levels would not exceed demolition noise levels.

2. Traffic Noise

Project-induced traffic would increase surface traffic on 24th St. between Rhode Island and Kansas Sts. by approximately 40%. This would add approximately 3 dBA in traffic noise due to vehicular traffic on 24th St. However, the vehicular traffic noise from the Freeway would exceed the traffic increase due to project-induced traffic on 24th St. between Kansas and Rhode Island Sts. A 3 dBA noise change is usually perceptible; in this case Freeway noise would overshadow the change.

3. Land Use Noise Policy

The Environmental Protection Element of the City's Master $Plan^3$ states regarding residential development in an area with an L_{dn} of 65 or more:

"New construction or development should generally be discouraged. If new construction or development does proceed a detailed analysis of the noise reduction requirements must be made and needed noise insulation features included in the design."

State Noise Insulation Standards for multi-family housing require that "an acoustical report be prepared showing that the interior noise level due to exterior sources will be less than CNEL 45."4

The noise level in the courtyard would be expected to be lower than the present 55 to 60 dBA because Freeway noise comes through the driveway gate and this gap would be eliminated.

Notes: Noise Impacts

- 1. Assuming that debris would be disposed of south of the site, probably south of the county line.
- 2. City and County of San Francisco Noise and Abatement Control Ordinance No. 274-72, 4 December 1972.
- 3. The Plan for Transportation Noise Control, adopted by the San Francisco Planning Commission 19 September 1974 by Resolution 7244. The project site is mapped in this report as being in an area with a background noise level of over 65 dBA.
- 4. Charles M. Salter, 2222 Limited EIR Acoustical Report, 28 August 1980.

G. Air Quality Impacts

1. Toxic Substances From Past Site Uses

A study of toxic substances on the site shows that any toxicity problems on site would be expected to be dominated by the long history of paint manufacture. Paint manufacture generally involves 2 categories of toxic materials: volatile, organic suspension and drying agents, which evaporate rapidly; and pigments, many of them water-insoluble compounds of metals such as cadmium. Until the 1970's, mercury compounds were widely used as mold inhibitors in paint. (See further discussion of paint chemistry, page 60.)

Many volatile organic substances have noticeable odors, responsible for the characteristic odors of paint. Such odors were not generally conspicuous on the site at the time of the first site visits in May and June, 1980. Later, after paint was spilled and sprayed by vandals, paint odors became more prominent, but were presumably not associated with past spills on the site.

A variety of organic materials may be present in the air over the site as a result of evaporation of non-odorous or slowly evaporating materials in unsealed containers on the site. (See Appendix C, pages 129-136, for a list of substances found on site.) Project sponsor has removed all toxic materials from the site and disposed of them in accordance with Title 22, Division 4, of the California Administrative Code, Environmental Health. Any remaining material in the air due to these stored materials should have dissipated in a few days after their removal and would be expected to drop below detectable air concentrations by the time construction begins. (The detectable level for some organics is now in the parts per trillion range.)

One soil sample taken from the area of the site with intermittently detectable organic odors was analyzed for the presence of polychlorinated biphenyls (PCBs) which are sometimes used in paints. None were found. Leaking electrical capacitors were observed on the site by inspectors from the California Department of Health Services. The leaking material was identified as Aroclor 1254, a commercial PCB product.1

2. Toxic Substances From Demolition

It is probable that some toxic material is contained in dust and deposits on interior surfaces of some of the buildings to be demolished.

Material on the walls of one of the buildings south of the incinerator contains 60% asbestos. This friable asbestos material would present an inhalation hazard to demolition workers and persons in the neighborhood at the time of demolition. Asbestos inhalation is associated with lung and other cancers.

There is friable material, which looks as if it contains asbestos, on the ceiling and walls of parts of the building to be retained at Kansas and 24th Streets.

The 240 volt transformer in the building south of the incinerator is a dry transformer and so contains no PCBs. Other transformers on the site would need to be checked before demolition for possible PCB content, to avoid dispersal during demolition.

3. <u>Cumulative Airborne Lead Exposure</u>

Regulation 11 of the Bay Area Air Quality Management District (BAAQMD) provides for a ground level lead emission maximum of 0.001 mg/m³. The Federal lead standard is 0.0015 mg/m³ (24 hour average).⁴ There is evidence that lead accumulates in lung tissue when ambient concentrations are greater than 0.0013 mg/m₃.

Downtown San Francisco and San Jose have the highest lead levels in the Bay Area (see Table 8). In the period 1974-1978, the San Francisco monthly average exceeded the federal 0.0015 mg/m³ standard for 21 months. The Potrero measuring station at 900 23rd Street, closer to the project site, exceeded this standard for 2 months in the same 4-year period. 5

TABLE 8. SAN FRANCISCO QUARTERLY AIR LEAD CONCENTRATIONS IN MILLIGRAMS PER CUBIC METER, MG/M³

	939 Ellis Street Monitoring Station				900 23rd Street, Potrero Monitoring Station				
Year	JFM*	AMJ	JAS	OND	JFM	AMJ	JAS	OND	
1976**	0.00180	0.00185	0.00175	0.00280	0.00082	0.00084	0.00082	0.00195	
1977**	0.00183	0.00100	0.00108	0.00139	0.00108	0.00066	0.00068	0.00103	
1978**	0.00097	0.00095	0.00199	0.00108	0.00086	0.00051	0.00083	0.00089	
1979***	0.00090	0.00054	0.00059	0.00095	0.00079	0.00050	0.00033	0.00046	

^{*} JFM = January, February, March, etc.

^{**} Data from Information Bulletin 4-4-79, BAAQMD, 1979.

^{***} Data from CA Air Quality Data-Summary of 1979 Gaseous and Particulate Pollutants; Teresa Lee, Public Information, BAAQMD, phone conversation 12 August 1980.

Because of the proximity of the site to the Freeway, it is possible that lead in air due to exhaust from cars using leaded gasoline and lead in the air from lead pigments used in paint could cumulatively exceed this standard even if the lead from either source alone were at a relatively safe level. The prevailing winds from the northeast tend to bring Freeway-associated air pollutants over the site. In order to ascertain whether a lead problem exists at the site, on 1 July 1980 air was sampled at 3 locations on the site: the Freeway side, the courtyard, and the side away from the Freeway. Analytic results indicate that lead concentration in all 3 samples was greater than or equal to 0.0012 $mg/m^3.6$ The probable error of these measurements was of the order of \pm 25%, so it can be said that the values were probably all within the federal standard but it is not certain that they were below the BAAQMD standard.

Under the relatively infrequent conditions of east wind, there is a possibility that emissions from the Potrero Power Plant could pass over the site. Trace element concentrations from this source have been estimated at $0.000001 \, \text{mg/m}^3.7$

4. <u>Carbon Monoxide</u>

Carbon monoxide (CO) is the air pollutant from vehicular exhaust most likely to be a problem in San Francisco. The major source of CO near the project is the James Lick Freeway (Highway 101), which is separated from the proposed project site by an approximately 15-foot strip of eucalyptus trees and by Kansas Street. According to CalTrans, Highway 101 near the proposed project is one of the most heavily travelled freeways in the Bay Area. 8 This highway carries approximately 220,000 vehicles per day. 8 As project trips would be less than 1% of the Highway 101 trips, project generated air pollutants would be undetectable against the existing background of emissions from Highway 101. The BAAQMD monitoring staton at 900 23rd Street is the closest air monitoring station to the project. During 1979, the CO standard was exceeded once (compared to twice at the 939 Ellis Street Station). Nitrogen dioxide and sulfur dioxide standards were not violated at either station.9

The BAAQMD has recommended that: "... residential development should observe an absolute minimum distance of 50 meters from the roadway edge to habitable areas (including yards) and that an optimum distance for air quality purposes should be 100 meters." The site is about 95 feet (29 meters) from the Freeway, and about 25 feet above the surface level of the Freeway.

5. Sensitive Receptors

Patients who may be particularly susceptible to the effects of inhaling toxic substances could be at San Francisco General Hospital, I block from the site, across the Freeway, on the north side of 23rd Street. The prevailing northwest winds would blow from the direction of the hospital toward the site. During winter storms, winds from the south could blow from the site area toward the Hospital. During rain any toxic materials in the air would tend to be washed out of the air. Traffic-associated air effects would be dominated by the Freeway passing along the east side of the Hospital and Potrero Avenue traffic on the west side of the Hospital.

Because of natural factors and the proximity of the Freeway, project-related emissions would probably not have an effect that could be detected at the hospital. 11

Notes: Air Quality Impacts

- 1. Letter from David L. Storm, Ph.D., Regional Administrator, Hazardous Materials Management, Department of Health Services, to Carol Roos, OER, 4 December 1980.
- 2. Microscopic analysis by Robert MacDonough, S.F. Health Department, 21 July 1980.
- Friable: easily rubbed, or crumbled into powder.
- 43 Federal Register 46246-46277.
- 5. Information Bulletin 4-4-79, Atmospheric Lead in the San Francisco Bay Area, 1970-1978, BAAQMD, 1979, p. 5.
- 6. Analyses performed by LFE Environmental Analysis Laboratories, Richmond, under contract to Bendix Environmental Research, Inc., EIR subcontractor.
- 7. "Public Health Impact of Emissions From Potrero Plant," Systems Applications, Inc. report SAI No. EF 79-66 prepared for PG&E, 2 May 1979.
- 8. John Gersler, CalTrans, telephone conversation, 16 June 1980.
- 9. Contaminant and Weather Summary, BAAQMD, December, 1979.
- 10. Milton Feldstein, Air Pollution Control Officer, letter to City of Walnut Creek, 24 March 1980.
- 11. Traffic counts have a probable error of about 10%. As local traffic near the project would be less than 10% of Freeway traffic, it would not have a statistically detectable air pollution impact.

H. Toxic Substances

1. Paint Chemistry

Paints consist of pigments and a medium in which they are suspended that binds the pigment to the substrate. Varnish is a liquid coating material containing a resin that dries to a hard, usually transparent, film. Though usually clear, varnishes may contain pigments. Lacquer is a varnish that solidifies by evaporation of solvents in it. Pigments may be added to lacquers. Paints, varnishes, and lacquers were all manufactured on the site.

Paint was manufactured on this site since the mid-nineteenth century, first by the Bass-Hueter Paint Company; then from 1930-1932 by Dutch Boy, Inc., and finally by National Lead Company until 1970. National Lead has not retained files on this plant. According to a former plant superintendent on this site, paint, stains, lacquers and shellac were manufactured here. 2

The most probable residual problem on the site would result from metal-containing pigment contamination of the soil under the concrete that covers most of the site (in some places it is 2 feet thick). This contamination could occur through cracks in the slab. Any organic pigments present would probably be decomposed into harmless compounds by bacteria, fungi and algae in the soil. Metallic compounds used as paint pigments would tend to stay in the soil.

Appendix C, page 137, lists some of the metal compounds used as paint pigments, and gives information on their toxicity. Many paint pigments consist of mixtures, for example, cadmium yellows may contain zinc sulfide in addition to cadmium sulfide.³

During the Synanon organization's tenancy on the site, from 1972 to January of 1980, there was a ceramics workshop on site. Substances used in ceramic glazes include compounds of lead, chromium, copper and cadmium.⁴

2. Soil Analyses

Except for a small area at the southeast corner of the block, the site is totally covered by buildings and concrete pavement. It is not known how long the site has been so covered. view of the history of over 100 years of paint manufacture on the site, there has been opportunity for soil contamination due to spillage. On the basis of paint and glaze chemistry, 17 soil samples from cores taken by the soil engineer, Warren Wong, and a surface soil sample were analyzed for one or more of the followarsenic, cadmium, chromium, copper, lead, mercury and zinc. (The probable error of the analytic values is + 5%.) samples were taken from 1.3 to 20.9 feet below the surface (see Appendix C, page 139 for location and numbering of the core sites), and selected to indicate whether metal levels were present in high enough concentrations to pose a possible hazard to users of the courtyard area. As most of the site is paved, other surface samples will not be accessible until removal of the cement slabs. As it is not known how much new topsoil was brought into the southeast corner of the site for plant nursery operations, analysis of soil in this area has been deferred until the general study to be made after slab removal (see Mitigation, pages 90-91.)

A comparison of normal soil concentrations to the minimum and maximum concentrations found on the site for the 7 elements for which analyses were performed can be seen in Appendix C, page 138. Arsenic was found to be within normal soil limits. Cadmium, copper and mercury are within normal limits for soil, except for the surface sample (see pages 63-64). Zinc, lead and chromium were found to be above normal in samples other than the surface sample. See Appendix C, pages 140-146, for site distribution of these 7 elements.

Lead. Movement of lead in soil is determined by the type of lead compound, the binding capacity of the soil and the acidity of the soil. Lead can be absorbed by plant roots, the degree of absorption increasing in acidic soils. Therefore, the site should be developed in such a fashion that plant roots would not reach soil with above normal lead content. The lead pigments used in paints are water insoluble, so they would be expected to move slowly through the soil, remaining over long periods. Lead has no known role in normal human physiology, and has known adverse effects ranging from anemia, abdominal pain, low blood pressure, loss of appetite and insomnia to brain effects with convulsions often terminating in death, at high concentrations.

The analytic data suggest that lead entered the soil at the north-central and northeast portions of the site. Slow movement through the soil resulted in decreasing concentrations horizon-tally toward the south and west sides of the block, the expected direction of ground water movement, and with increasing depth. Most of the lead appears to be within 2 feet of the surface in the area of boring No. 2 and the surface sample. The highest concentration found was 4800 ppm⁶ in the surface sample, 4600 ppm above the normal soil lead range and 4792 ppm above the low value of 5.6 ppm, in Core 1. This sample is thus 800 times the minimum level for the site, and 24 times the maximum normal soil range for lead. Maximum lead concentrations found on this site are in the low range of 1,000 to 100,000 ppm lead values found in Oakland where a lead battery manufacturing site was developed as a public park after removal of the surface soil.⁷

Zinc. Zinc was found in highest concentration on the north side of the site in the surface sample and in Core No. 2; zinc decreases moving west, south and by depth. The highest value, 4200 ppm in the surface sample, was 3950 ppm above the normal soil range and 4192 ppm above the low value of 8 ppm in Core 2 at 10.4 feet. This represents an approximately 350-fold increase over background levels on the site. Zinc distribution on the site is shown in Appendix C, page 146. Trace amounts of zinc are required in the human diet as components of cellular catalysts. Ingestion of excess zinc causes nausea and vomiting which tend to remove the material from the system. Zinc compounds are generally less toxic than lead compounds.5

Chromium. The distribution pattern of chromium on the site differs from that of lead and zinc, the highest concentrations occurring in Core 8 at the southwest corner of the site, and no systematic variation of concentration with depth is evident. highest concentrations, 1000 and 900 ppm occurred in boring No. 8, at depths of 9.4 and 20.9 feet, respectively. These 2 samples are the only samples indicated as shale in the preliminary boring logs of the soil engineer. The third highest concentration, 350 ppm at 15 feet in boring No. 4, was the only sample partially composed of serpentine. Chromium is normally associated with serpentine rocks and tends to concentrate in clay.8 Those samples identified in the boring log as dominantly clayey ranged in chromium content from 140 to 260 ppm. Those samples identified as dominantly sandy ranged from 25 to 100 ppm chromium. The chromium content of the samples appears to be due to natural soil and rock composition. Residents would not come in contact with the rock under the site and soil concentrations are generally within the normal range for soil. For distribution of chromium on the site, see Appendix C, page 142.

Like zinc, trace amounts of chromium are required in the human diet. Workers in the chromate-producing industry, exposed to chromium levels substantially above those required, have an increased incidence of lung cancer.

<u>Cadmium</u>. Cadmium was found at 17 ppm in the surface sample taken near the loading dock.

Values in 3 other samples taken at depths of 1.3 to 9.4 feet were all below 1 ppm. The 1.3 foot depth sample was taken approximately 7 feet from the surface sample. Typical soil cadmium concentrations are 0.1 to 7 ppm. The background level at this site is toward the lower end of this range. It appears that cadmium at the project site is probably concentrated near the surface, where it is increased about 20-fold, and has not tended to move down into the soil. For cadmium distribution on the site, see Appendix C, page 141. Cadmium affects kidney function. Increased cadmium consumption should be avoided because many Americans are already close to the level of cadmium intake that can produce symptoms. The soil containing excess cadmium would be removed by the mitigation measure discussed on pages 90-91.

Copper. Copper was 160 ppm in the surface sample, not significantly different from 150 ppm, the top of the range of normal soil concentrations. Three other samples at depths of 1.3 to 9.4 feet ranged from 8 ppm at 9.4 feet to 79 ppm at 1.3 feet. The background level at the site is about 8 to 10 ppm copper, so copper is increased about 16-fold at the surface. A value of 79 ppm at 1.3 feet, Bore 2, suggests that copper has moved further down than cadmium but not far enough to increase concentrations on the entire area under the site. For copper distribution on the site, see Appendix C, page 143.

Mercury. Mercury was 8.6 ppm in the surface sample. The analytic method used did not distinguish between different chemical compounds containing mercury. Average soil mercury concentrations are 0.1 ppm; normal soils range up to 0.4 ppm. The background at the site is about 0.13 ppm. The surface sample is increased about 65-fold over background at the site. Three samples at depths of 1.3 to 9.4 feet ranged from 0.12 to 0.35 ppm. For site distribution of mercury, see Appendix C, page 145. Potentially hazardous mercury-bearing soil would be removed by the mitigation measure discussed on pages 90-91.

Arsenic. Arsenic values on the site were all within normal soil values. The highest value, 60 ppm, was obtained in boring No. 4 at 14 feet, in the sample containing some serpentine, suggesting that it may be associated with the natural content of the sample. The values of 11 and 13 ppm at boring No. 2 and the lack of correlation of concentration with sample depth suggest that arsenic was not spilled in the area where lead and zinc have the highest values and the arsenic may all be of natural origin.

3. Groundwater Quality

Groundwater under San Francisco is part of an aquifer extending under San Mateo County. Some communities in San Mateo County derive part of their drinking water from wells; therefore, it is theoretically possible for ground water contamination in San Francisco to affect San Mateo County drinking water.

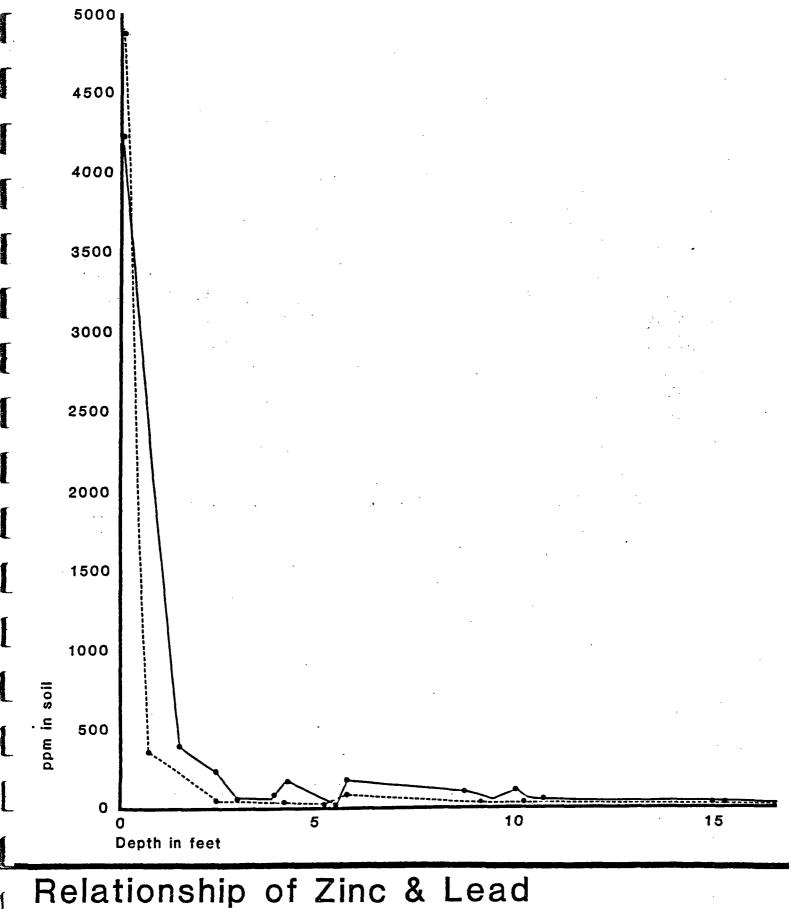
Exhibit 22, page 66, shows that lead and zinc concentrations on the site drop off rapidly with depth. At depths from 5 to 15 feet, zinc concentrations are from 19 to 120 ppm, compared to a normal soil range of up to 250 ppm (Appendix C, page 138). Groundwater would be expected to be moving west toward and under the Freeway. There is no indication from available data that zinc spilled on site is moving off-site in concentrations likely to exceed 250 ppm. Some zinc is probably moving off-site near borings 7 and 9 (Appendix C, page 146). As these amounts are below 250 ppm and zinc concentrations tend to decrease with depth (Exhibit 22, page 66), it appears improbable that zinc from this site would move far enough to reach the San Mateo County line.

Lead concentrations at 5 to 15 feet depth are 6 to 80 ppm (Appendix C, page 144), compared to a normal soil range of 1 to 200 ppm. As lead has moved less through the soil than zinc, the potential for groundwater contamination is less than that for zinc.

As indicated by Appendix C, page 140, arsenic on site is within the normal range; cadmium is above normal in the surface sample and at the low end of normal at other sampling sites (Appendix C, page 141); copper is borderline high in the surface sample and within the normal range at other sampling locations (Appendix C, page 143); and mercury is elevated at the surface sample site, at the top of the normal range at 1.3 feet in boring 2, and at typical soil concentrations at borings 4 and 8 (Appendix C, page 145). These elements are all either natural in the soil or confined to localized surface-contaminated areas. If the site is developed by the sponsor, surface-contaminated soil would be removed. This would be expected to eliminate potential future risk of ground water contamination.

4. Incinerator/Chimney

On the Rhode Island Street site frontage there is a brick incinerator which project sponsor would retain for visual and



Relationship of Zinc & Lead Concentrations to Depth

Zinc

historic interest. The incinerator extends 20 feet above the sidewalk, 30 feet above the paved surface to the south of the incinerator, and 35 feet above its base in the building. The inside of the incinerator is coated with a black residue which is peeling in some places. Because of the potential for carcinogenic substances in such incinerator residues, and the potential for people to come in contact with this material (the incinerator is big enough to stand in — the base is 9'4" x 8' — and presently easily accessible from inside the buildings on the east side of the property), this material was analyzed for polyaromatic hydrocarbons (PAH) which were judged to be expected by toxicological consultant, Selina Bendix, Ph.D.

Analytic results on a single sample 10 indicate the presence of 400 ppm ± 10% PAH. The PAHs considered most hazardous by NIOSH (National Institute for Occupational Safety and Health), benzo-alpha-pyrene, benzoepsilon-pyrene, pyrene, chrysene and anthracene, were not detectable. In the presence of so many other PAHs, 20-25 ppm of any of these 5 substances would have to be present to be detectable. These 5 PAHs are carcinogenic and at least 80 carcinogenic derivatives of these 5 compounds are known. 11 Benzo-alphapyrene is also teratogenic. 12 In view of the large number of PAHs found to be carcinogenic, it is prudent to consider all of the 400 ppm of PAHs to be carcinogenic.

5. Waste Disposal

Various chemicals related to activity on the site remained at the time of initiation of this EIR in June 1980. A list of these materials is given in Appendix C, page 129. The following materials on this list appear on the state Hazardous Waste List: 13 phosphoric acid, hydroacetic acid, methylene chloride, gasoline, ammonium nitrate, isobutanol, styrene and hydrochloric acid. The removal and disposition of these, and possibly some of the other materials on the site, is subject to the hazardous waste handling regulations in Title 22, Division 4, of

the California Administrative Code and Chapter 615 of the California Health and Safety Code. The Federal Environmental Protection Agency has designated wastes from paint manufacturing as hazardous wastes under the Resource Conservation and Recovery Act of 1976. This action was taken because of the presence of chromium, lead, mercury, nickel, antimony, cadmium, silver and various toxic organic chemicals in paint wastes.

Materials on the site classified as hazardous must be

disposed of at a special hazardous waste disposal site. The
Regional Water Quality Control Board has approved three Class I,
hazardous waste disposal sites pursuant to § 14040(b) of the

- Porter-Cologne Water Quality Control Act. These sites are in the industrialized area of northern Contra Costa County and southern Solano County (Richmond Sanitary Service in Richmond, Industrial
- Tank Corporation in Martinez and Benicia). None of these sites accepts materials in drums. The developer contracted with Zero Waste, Inc. to remove these materials in conformance with applicable regulations. Field check by the EIR consultant on 25 November 1980 indicated that most of the containers of chemicals on the site had been removed. Five 55 gallon drums labelled "Chicago Candy Co." remain. Nontoxic reusable materials from the site, remaining from the Synanon organization, have been given by project sponsor to local nonprofit organizations.

Many chemical waste disposal sites have proven to have drums of chemicals below the surface. In the absence of information about past waste disposal practices at the site, it is possible that subsurface storage tanks or other disposal exist on the site.

Along the east side of the block, under the sidewalk, there are a number of tanks. Toward the northern end of the block there are 5 metal storage tanks of 4.8 feet diameter, with manhole frames and covers in the sidewalk, spaced approximately 22 feet apart (center to center). Associated with these tanks are five 2 x 2 ft. metal covers in the sidewalk over inlet valves that connect to the subsidewalk tanks as well as pipes going through the retaining walls. The equipment these pipes connected to has been removed.

These 5 tanks were installed in 1946 pursuant to a Fire Department permit. The permit lists the contents as mineral spirits with a flash point of 115°F. and tank size as 11,100 gallons. The Fire Department requires that any subsurface tank abandoned for more than 6 months either be removed or filled with sand and rendered inert. Ken Long, Fire Department Fire Protection Engineer, of recommends that these tanks be removed. It is likely that these tanks are now empty; however, there is a possibility of a fire hazard if vapors remain.

Further south there are more metal covers in the sidewalk and patches of newer concrete which may indicate former plate locations. Those plates that are moveable have valves under them. It seems probable that at least some of these valves still have tanks under them. It is not known whether these tanks are empty or what their past or present contents may be.

"gas fill cap" on the surveyor's map, 16 which may be inlets for a gasoline storage tank(s).

The valves to all the tanks are rusty and could not be moved.

Notes: Toxic Substances

- 1. Samuel R. Wilson, Director of Distribution, Coating Group, Dutch Boy, Inc., letter received 17 July 1980.
- 2. Richard J. Marklin, Pioneer City, California, telephone conversation of 17 July 1980.
- 3. Cadmium lithopone pigments contain cadmium sulfide and barium sulfide; cadmium sulfoselenides are mixtures of cadmium sulfide, cadmium selenide and selenium sulfide; and the mercadium pigments contain mercuric sulfide and cadmium sulfide. National Toxicology Program, First Annual Report on Carcinogens, July 1980, Vol. II, p. 77.
- 4. For a brief discussion of ceramic chemistry, see Demo, Allan A., "Chemistry for Potters, J. Chemical Education," 57:72-275, 1980.

- 5. NIOSH/OSHA Pocket Guide to Chemical Hazards, USDHEW and US Dept. of Labor, 1978, p. 118; Sax, N. Irving, Dangerous Properties of Industrial Materials, 5th Ed, Van Nostrand, 1979, pp. 766 et seq.
- 6. Another portion of this sample, analyzed by a different method, gave 5200 ppm.
- 7. Wesolowski, Jerome J. et al., "The Identification and Elimination of a Potential Lead Hazard in an Urban Park," Archives of Environmental Health, 34:413-418 (1979).
- 8. United States Mineral Resources, Geological Survey Professional Paper 820, 1973, p. 112.
- 9. National Toxicology Program, First Annual Report on Carcinogens, July 1980, Vol. 1, p. 22.
- 10. Analysis performed by LFE Corporation.
- 11. Listed in NIOSH Registry of Toxic Effects of Chemical Substances, 1978.
- 12. Teratogenic = causing birth defects.
- 13. California Administrative Code, Title 22, Division 4, Chapter 30, Section 66680.
- 14. Flash point = the lowest temperature at which vapors from a volatile liquid will ignite momentarily when a small flame is applied under specified test conditions; an indication of degree of fire hazard (the higher the flash point, the lower the hazard).
- 15. Telephone conversation, 25 November 1980.
- 16. Exhibit 3, page 6; larger scale drawing available for public review at the Department of City Planning, 45 Hyde Street, Room 319.

I. Energy

1. Building Materials

The energy consumed for heating, hot water, lighting, etc. during the lifetime operation of buildings is greater than the energy required to make building materials, transport them to the site and construct a building. The energy required for building materials is not negligible, however, as can be seen from the following list. The use of aluminum and copper increases the energy intensiveness of construction.

TABLE 9: ENERGY INTENSIVENESS OF TYPICAL BUILDING MATERIALS

Energy to	Energy to Fabricate		
BTU* per 1b.	BTU* per unit		
41,000			
1,500			
400	•		
	15,200/block		
40,000			
2,200			
12,600			
4,100			
•	6,900/sq. ft.		
13,800			
8,000			
	BTU* per lb. 41,000 1,500 400 40,000 2,200 12,600 4,100 13,800		

^{*} BTU = British Thermal Unit; a standard unit for measuring heat, about equal to that from burning one standard wooden kitchen match. Technically, it is the quantity of heat required to raise the temperature of one pound of water 1° Fahrenheit at sea level.

Source: Kegel, Robert A., "The Energy Intensity of Building Materials," Heating/Piping/Air Conditioning, June 1975, pp. 37-41.

Construction energy consumption for the proposed project is estimated to be the equivalent of 11 million kilowatt hours (kwh) of electricity, based on an estimated energy consumption of 9.3 million kwh per \$10 million of construction cost. The estimated construction cost for the proposed project is approximately \$11.8 million

Operating Energy Consumption

If natural gas is used for heating hot water, cooking and space heating, each unit would use about 100 therms (10 million BTU) of gas per month and 300 kwh of electricity per month, or about 13,000 therms of gas and 40,000 kwh of electricity per month for 132 units.

If electricity is used for other purposes, approximately 3 times as much fossil fuel would be used as in the direct burning of natural gas. Use of electricity for heating hot water and space heating would increase electrical consumption to about 1,000 kwh/mo./unit, or 137,000 kwh/mo. for the whole project, and would decrease gas consumption to 25-40 therms/mo./unit, or 3,400 - 5,500 therms/ mo.for the project.² Electrical space heating and cooking would be approximately 2.7 times as expensive as gas. Assuming that electricity would not be used for space heating, the connected load would be approximately 300 kilowatts.

Assuming use of gas for water and space heating and for cooking, electricity would be mainly used for lighting. Peaks would be expected in the morning, while people were getting ready to go to school and work, and in the evening, between 5 and 11 p.m., when all members of the household would tend to be home using appliances and lights. The evening peak would tend to be larger than the morning peak. Electrical energy use would peak during the short days of winter, when lights would be on longer, and would be lowest during the long days of summer.

Natural gas load distribution curves would be similar to those projected for Ocean Beach Park Estates, a larger combined

residential-commercial project.³ The summer minimum would occur in the middle of the day when people would be least likely to be home and the winter minimum would occur in the afternoon, the warmest part of the day. The winter maximum would occur in the morning due to space-heating to day temperatures. Gas consumption would peak in the months of December and January, when the most heating would be required, and would be at a minimum in September and October which are usually the warmest months in San Francisco. This analysis does not include the possible use of natural gas for heating swimming pool water.

3. Energy Conservation

Air Quality. The more carefully a building is constructed, with attention paid to the fit of windows and doors, the smaller the exchange of air through cracks and the lower the level of energy requirements for heating and cooling, if any. In order to minimize noise intrusion from freeway traffic, windows on the west side are expected to be double pane glass, which would also decrease heating energy use (see Mitigation Chapter for further discussion of double pane glass).

As building air leakage is reduced, exposure of occupants to gases given off by building materials increases. This is of particular concern in the cases of radon and formaldehyde. Radon is a radioactive gas naturally given off in varying amounts by all building materials. Radon concentrations increase detectably in buildings with ventilation rates below 0.3 air changes per hour. Detailed information on the potential hazard of increased radon exposure in energy-efficient buildings is not available. This matter is being investigated by the Federal Department of Energy (DOE). Current belief is that "routine" measures to increase energy efficiency are not increasing radon exposure enough to have a detectable effect.

Formaldehyde is a carcinogenic substance used in the manufacture of resins, wall board, and insulation. Part of the formaldehyde remains unreacted when these materials are made and

slowly diffuses out of the materials. In relatively air-tight homes, the formaldehyde concentration may become high enough to produce irritant effects on the occupants. Formaldehyde is an irritant to the respiratory tract and eyes at 0.01 ppm⁵ and to skin at 0.15 ppm.⁶ The NIOSH recommended standard for occupational exposure to formaldehyde is 1.2 ppm.⁷ The European indoor air standard is about 0.1 ppm. It has been found that energy-efficient buildings, with reduced air infiltration and low ventilation rates of or below 0.3 air changes per hour, exceed the European standard when outdoor formaldehyde concentrations are 0.016 ppm.⁸

Solar Energy. Use of solar energy is under consideration by project sponsor, see page 94. Use of solar energy for heating water would decrease demand for nonrenewable energy sources. Current cost for solar water heaters on single family homes is about \$3,000 per unit installed. Solar collectors for a recently built San Francisco apartment building with a similar number of units to the proposed project cost about \$120,000 and are expected to provide 60% of the hot water supply. Cost for the proposed project would be expected to be similar. Approximately 35-60 square feet of collector per dwelling unit would be required, 2 or 5,000-8,000 square feet for the whole project.

Fuel savings could more than offset the cost of solar panels during the lifetime of the project; the initial costs would become part of the purchase cost of the units. Payback time due to reduced fuel costs would be 5-7 years. Tax benefits for solar installations include tax credits for a portion of system costs and accelerated depreciation.

Solar cells have the advantages of producing electricity and not involving use of heat transfer liquids which can leak. Their disadvantage is expense, partially due to their low efficiency (maximum conversion of 15% of solar energy to electricity). Some solar cells involve the use of cadmium compounds and consequent risk of exposure to a toxic material of the workers who make them. Some firms hope to bring the installed cost from the present

approximately \$10 per watt to \$0.50 per watt by 1990. The Department of Energy has a National Photovoltaic Program aimed at production of low cost, high volume solar cells. Solar cells are not an economically viable option for the proposed project now, but may become cheap enough for retrofit within the next decade.

Wind Energy. Wind power, independent or in combination with solar units is another inexhaustable energy source. In 1977, it was estimated that "the minimum cost of a domestic plant would be about \$2,500 and would supply approximately 1/4 of the energy demand of the entire household. An installation adequate to supply an average household would cost in the vicinity of \$10,000."13 A wind speed of at least 10 mph is needed for wind power generation. A 60 to 80 feet tower 14 is required, depending on upwind obstructions. The blades of a 10 kw windmill would have a spread of 30 to 35 feet. 15 A \$20,000 wind generator in an average wind of 10 mph would produce 22,000 kwh/yr. or 4% of the project's annual energy consumption.

Site specific wind speed records of several years' duration are required in order to calculate the potential for wind energy generation at any particular site. Such information is not available for the project site. A wind speed recorder could be placed on the roof of the project, should it be built, in order to obtain information for a future decision on the feasibility of windpower generation on the site. Any future decision on installation of 1 or more windpower generators would also have to take into account windmill noise generation, community response to visual impact of wind generators and the economics of windpower generation.

Notes: Energy

- 1. City and County of San Francisco, FEIR, Ocean Beach Park Estates, EE 78.178, 30 August 1979, p. 125, adjusted for construction cost inflation.
- 2. Robert Tucker, Dealer Representative, PG&E, telephone conversation, 19 August 1980.
- 3. City and County of San Francisco, EE 78.178, FEIR, Figure No. 24, page 127, 30 August 1979.
- 4. Hollowell, Craig D., et al., "Radon-222 in Energy Efficient Buildings," American Nuclear Soc. Mtg. 11-16 November 1979.
- 5. California State Energy Resources Conservation and Development Commission, EDIR Residential Insulation Program, 22 February 1978, p. 60.
- 6. NIOSH Registry of Toxic Effects of Chemical Substances, 1978, p. 587.
- 7. NIOSH, op. cit.
- 8. Lin, Chin-I, et al., "Indoor/Outdoor Measurements of Formal-dehyde and Total Aldehydes," 178th, Nat'l Mtg. Amer. Chem. Soc., 9-14 September 1979.
- 9. John Burton, Integral Design, "Low Cost integral Solar Water Heaters," No. Cal. Solar Energy Assn. Newsletter, p. 7, September 1980.
- 10. Solar Center, San Francisco, telephone conversation, 28 August 1980.
- 11. Bryan Kiefer, Jones & Kiefer Construction Co., San Francisco, telephone conversation, 28 August 1980.

- 12. Tim Duane, Intern, PG&E, telephone conversation, 28 August 1980.
- 13. Senior Seminar, Environmental Studies Group Major, UC Berkeley, "Energy in the Bay Area." June 1977, p. 157.
- 14. Windmills are not subject to height limits per section 260(b)1(A) of the Planning Code.
- 15. Neil Holbrook, Power Towers, Inc., Pleasant Hill, telephone conversation of 9 February 1981.

J. Community Services

1. Water and Wastewater

According to the most recent San Francisco Water Department annual report, City-wide residential water consumption is 35.8 million gallons per day (mgd). Assuming a population of 675,000, 2 this means an average of 55 gallons per day (gpd) per person.

Assuming 2.1 persons per unit, a 132 unit development would consume 15,200 gpd, or 0.0004% of San Francisco's annual residential water consumption. The water supply in the area would be adequate for the project.³ The swimming pool would use approximately 1500 - 2000 gpd, or an additional 10-13% of the other project water use.

Sewage from the site drains to the Southeast Water Pollution Control Plant (SEWPCP). There are 12 inch diameter collector sewers on the west, north and east sides of the site and a 16 inch sewer on the south side. These sewers drain to a larger sewer in Kansas Street, a few feet west of the collector sewer.⁴ These sewers could accommodate the wastewater from the proposed project.

Wastewater flows are typically 70% of water use. ⁵ In San Francisco, where lots tend to be smaller than elsewhere in the Bay Area, and a smaller percentage of water is used for landscape irrigation, the figure is 90%. Expected flow from 132 units would

be 0.90 x 15,200 or 13,700 gpd. The SEWPCP has a capacity of 70 mgd, and receives an average of 22 mgd in dry weather. 6

The flow from this project would constitute 0.07% of the dry weather flow to the plant adding 2000 gpd for the swimming, pool, the total water use of the project would be a maximum of 15,700 gpd.

The effluent from the SEWPCP does not meet applicable standards. Improvements are under construction which will bring the treatment level to secondary treatment and increase the capacity of the plant. This is one of many projects imlementing the San Francisco Wastewater Management Master Plan. Implementation of this entire plan will be required to bring the City into compliance with the Federal Clean Water Act.

2. Fire and Police Services

According to Chief Robert Rose (meeting on 2 July 1980), water supply, hydrant location and fire equiptment access are adequate for the proposed project at the proposed site.

Police department records of incidents "in the area of Kansas Street and Rhode Island between 23rd and 24th Streets" are as follows:

TABLE 10: CRIME INCIDENCE IN PROJECT AREA

Type of Crime	1978	1979	1980 to July 1980
Auto Theft or Burglary	10	15	8
Robbery	0	1	2
Residential Burglary	4	. 1	1
Battery	1	1	0
Petty Theft	0	1	0
Kidnapping	0	1	0
•			•

Source: Letter from Officer Robert Baldocci, #441, of 3 July 1980.

Officer Alfred Baldocci of the Potrero Police Station states that, "As you can see from this report, the incidence of crime in the area is minimal and this picture should change for the better with the increase of public activity in the area.... I don't feel at this time that a development of this nature will cause any particular problem for our department's operation." 8

Solid Waste

Assuming 2.5 pounds of solid waste production per person per day, 9 and 2.1 persons per unit, 132 units would produce about 700 pounds of solid wastes per day or 0.023% of the 1500 tons produced daily by the City as a whole. Household solid wastes produced by the project would be disposed of at the landfill site in Mountain View, Santa Clara County. The capacity of this site is expected to be exhausted by about 1983 and no alternative future method for disposal of San Francisco's solid waste has yet been selected. For a discussion of alternatives under consideration, see the Final EIR for a "Resource Conversion Center, Brisbane/San Francisco, California," City of Brisbane, 1980.10

4. Schools

Children residing on the site would attend the following schools: Elementary (grades K-5) students would walk 2 blocks to Starr King at 1215 Carolina Street; middle school (grades 6-8) students would walk 4 blocks to Potrero Hill at 655 De Haro; and high school students would go approximately 1-1/2 miles to Mission High at 3750 18th Street. The above school assignments are effective through 30 June 1981.11 The School District as a whole could accommodate students from the proposed project. 12

Notes: Community Services

- 1. Report for Fiscal Year 1978-9, San Francisco Water Department, 1979, page 11.
- 2. Preliminary report on "Population and Housing in the San Francisco Bay Region 1979-1980," First Draft, ABAG, 4 February 1981.
- 3. Jack Kenck, City Distribution Manager, San Francisco Water Department, telephone conversation, 16 June 1980.
- 4. Letter from Mervin Francies, Engineering Associate II, San Francisco Wastewater Program, received 3 July 1980.
- 5. Metcalf & Eddy, Inc., Wastewater Engineering, 2nd Ed., McGraw Hill, 1979, page 21.
- 6. FEIR, Southeast Treatment Plant Dry-Weather Expansion & Interim Point Discharge, City and County of San Francisco, April 1975, p.-IV-1.
- 7. Secondary treatment is the treatment of wastewater by a biological or physical chemical process, after primary treatment. It provides approximately 90% removal of BOD. BOD = an abbreviation for biochemical oxygen demand, a standard measure of water and wastewater quality.
- Letter from Officer Robert Baldocci, #441, of 3 July 1980.
- 9. Solid Waste Generation Factors in California, Technical Information Services, Bulletin #2, California Solid Waste Management Board, 8 July 1974.
- 10. Available for public review at the Department of City Planning, Office of Environmental Review, 45 Hyde Street, file number EE 79.307/NLA.

- 11. Edward R. Schulman, Program Manager, School Operations, San Francisco Unified School District, letter received 3 July 1980.
- 12. Schulman, E.R., telephone conversation, 26 June 1980.

K. Earthquake Effects

Retained Structures. The 5-story building at the corner of Kansas and 24th Streets and the brick facades designated for retention would be examined by a structural engineer, and his/her recommendations would be followed in project design (see Mitigation Chapter, page 95).

Seismic Safety. A site specific geotechnical analysis, as required by the Seismic Safety Element of the General Plan for the City and County of San Francisco, has been made by Warren Wong of Geo/Resources (California License No. CE 25777). Implementation of the foundation recommendations may become a condition for approval by the Planning Commission or the Bureau of Building Inspection.

Retaining Wall. Along the eastern property line there is a 10 to 13 foot tall retaining wall. In the sidewalk area with asphalt paving, east of the retaining wall and south of the auto repair building, there is evidence of subsidence and slippage toward the retaining wall suggesting some instability in this area. Where it can be seen, this retaining wall is of varied design ranging from 4 to 10 inch thick concrete to 12 inch thick wood. It is likely that the wooden sections, at least, do not meet current City building codes. The integrity of the water, sewer, natural gas, electrical and telephone lines under Rhode Island Street is dependent on the structural stability of this retaining wall. Construction is planned up to these walls so that below sidewalk grade portions and foundations of buildings on the east side of the proposed project would depend on the integrity of this retaining wall.

L. Plants

Landscaping in the courtyard would not be visible from the sidewalk. As designed, project buildings would come to the sidewalk, leaving no space for planting. One street tree would be planted for each 20 feet of street frontage (over 60 trees), as required by the Planning Code. Existing shrubs and trees on the east side of Kansas Street would screen much of the view of the Freeway.

M. Short-Term Uses of the Environment vs. the Maintenance of Long-Term Productivity

Development of the project now would commit the site to residential use and would probably constrain future decisions about use of the site for at least 50 years. In view of the current need for housing in San Francisco and the probable long-term nature of this need, it appears reasonable to make a commitment to housing use rather than leave future options open.

If the 1980 increase of 15% in San Francisco construction costs persists in future years, then it will become progressively more difficult to finance housing construction and to find buyers who can afford new housing. If this site is to be committed to a housing development of some type, the sooner this is done, the lower the cost of the completed units and the greater the number of households that could afford them.

The developer wishes to pursue the proposed project at this time because costs for construction and financing of such developments may increase at a faster rate than prospective buyers' incomes.

N. Growth-Inducing Impact

The proposed project would add about 275 residents on the now vacant site. The project would meet existing housing needs rather than attracting new City residents who would otherwise not consider moving into the City.

Most of the new residents would probably be upper middle income persons because only these persons could afford the units. Most of these people would hold their jobs whether new housing was available in San Francisco or not; however, there is increasing evidence that people are reluctant to take jobs in San Francisco because of the difficulty in obtaining housing. The availability of sufficient housing to meet San Francisco demand would probably reverse the current trend to population loss. This project alone would not have a noticeable effect on San Francisco's population.

Notes: Growth-Inducing Impact

- 1. Bay Area Council, "Housing, the Bay Area's Challenge of the '80s," December 1980.
- 2. ABAG, "Population and Housing in the San Francisco Bay Region 1970-1980," First Preliminary Draft, 4 February 1981.

O. Neighborhood Concerns

Neighborhood organizations were contacted regarding the project. These organizations appear to be divided among those who view the project as a stabilizing influence on the neighborhood, those who think the project would increase housing costs in the area and those with environmental concerns.

One view is that the project's housing costs would be too expensive for most current residents of the community² and that most of the units would be too small for the large families who currently live in the area.³ There is concern that if the project is built, housing costs in the community would rise more rapidly than without the project. As housing costs increase it would be more difficult for existing residents to buy or rent housing in the community.⁴ Some feel that low and moderate income housing should be built on this site.⁵ Some think that the neighborhood already has enough low income housing and that government financial assistance for low and moderate income housing should go toward rehabilitation of abandoned units in the housing projects near the site.⁶

Other neighborhood groups feel that the project would lead to reinvestment in and revitalization of the neighborhood and add people and security to a block subject to vandalism.

There is concern that the project does not include enough open space for project residents, that the project would be too dense and out of scale with the existing community of mostly two-family units. Of Groups with environmental concerns think that noise from the James Lick Freeway would create unfavorable living conditions in the project, while others are concerned that chemicals from the site's former use for paint manufacturing may be harmful. 12

Notes: Neighborhood Concerns

1. Potrero Hills League of Active Neighbors (PLAN), discussion with Maria Vermiglio, President: 23 June 1980.

Potrero Hills Community Development Corporation (CDC), discussion with Jim Queen, President and Brian Chekowski, Counsel, 7 July 1980.

Potrero Hills Boosters and Merchants Association (PHB&MA), discussion with Mike Krivitt, President, 3 July 1980 and appearance before PHB&MA Board, 29 July 1980.

Potrero Hills Homeowners and Renters Association (PHH&RA), discussion with Joan Tricamo, 3 July 1980.

Potrero Hill Advisory Committee (PHAC), special meeting 8 July 1980.

Contacted by Kreines & Kreines, EIR consultants.

- 2. PLAN and CDC.
- 3. PLAN.
- 4. CDC.
- 5. CDC.
- 6. PHB&MA.
- 7. PHB&MA & PHH&RA.
- 8. PHB&MA.
- 9. PHAC.
- 10. PLAN.
- 11. PHH&RA
- 12. PHAC

V. MITIGATION MEASURES

Mitigation measures described below may be part of the project as proposed by the developer or may either be under consideration or rejected by the developer, as noted. Those measures not part of the project could be required as conditions of project approval.

A. Urban Design

Impact. The mass and design of the project would not match surrounding buildings, particularly along Kansas Street.

Mitigation. The developer would consider making changes to the existing plan for the Kansas Street units to bring them into greater conformity with the prevailing character of development on Potrero Hill. The developer would consider continuing the peaked roof design of the rest of the project along Kansas Street, where the proposed structure would otherwise present a solid, unbroken facade. A decision would be made by the developer after consultation with staff of the Department of City Planning, the noise consultant and the project architect, and before-completion of construction plans.

The scale of the rehabilitated warehouse building would be mitigated by attention to creation of pedestrian-scale visual interest in the design of the commercial space on the first floor. Placement of bus shelters on sidewalks bounding the project is under consideration. Submission of scale drawings for treatment of the new facades of the warehouse building and of adjacent sidewalk could be required by the Planning Commission as a condition of the Conditional Use Permit. Submission of plans

• for sign control could also be required. Project sponsor would consult the Planning Department before selecting street trees.

B. Historic Structures

<u>Impact</u>. Development of the site could result in loss of the visually prominent chimney on Rhode Island which is listed in the Department of City Planning 1976 Architectural Inventory.

Mitigation. Project sponsor would retain the chimney.

C. Housing Cost

<u>Impact</u>. The new housing prices could price some people out of the market for the project.

Mitigation. Remodeling of the building at Kansas and 24th Sts. would lower the cost per unit in the development below the cost of all new construction. More people would be able to afford the units at the lower prices (note that all new market rate housing is relatively expensive).

D. Noise

Impact. Freeway noise could disturb project occupants.

Mitigation. State regulations (Title 25, California Administrative Code) require that window and wall construction provide for noise reduction to mitigate the existing freeway traffic noise impacts on the west side of the project. The interior noise level must be limited to a maximum CNEL of 45 dB. Acoustical analysis of the proposed building will be performed to determine the extent of the noise control that would be necessary. Preliminary calculations indicate that windows in those walls with maximum outdoor noise exposure would require double glazing or laminated acoustical glazing with an STC¹ rating of about 30. The developers have stated that project construction would conform to the Noise Insulation Standards.

The effect of construction noise would be controlled by the provisions of the San Francisco Noise Ordinance². The project sponsor must comply with this ordinance.

In accordance with Section 2908 of the San Francisco Noise Ordinance, no construction would take place between the hours of 8:00 p.m. and 7:00 a.m.³

E. Toxic Substances

Impact. Potentially toxic dust could drift off site during
demolition.

Mitigation. In order to avoid dispersion of potentially toxic dust through the neighborhood, Bendix Environmental Research, Inc., toxic materials consultant for this EIR, recommends that continuous water spray be used during demolition to achieve adequate wetting to prevent dust emissions, as required for demolition of buildings containing asbestos by 39 CFR 1910.1001.

Project sponsor would implement this measure. This could be required by the City Planning Commission as a condition of the Conditional Use Authorization for the PUD.

The late Robert MacDonough, Environmental Health Inspector, San Francisco Department of Public Health, concurred in this recommendation and further recommended that any dusty or friable material be bagged and tied to prevent toxic dust dispersion. 4 Project sponsor is considering this measure and would decide after talking to the demolition contractor about feasibility and cost and before authorizing demolition.

Demolition of the asbestos-containing building south of the incinerator, must comply with Section 1919.1001 of the Occupational Safety and Health Administration's general industry standards, Part 1901, Title 9 of the Code of Federal Regulations, which provides that employees "engaging in the...demolition of pipes, structures, or equipment covered or insulated with asbestos and in the removal or demolition of asbestos insulation or coverings shall be provided with respiratory equipment...and

with special clothing..." The section also provides that when asbestos is removed it must be kept wet "to prevent the emission of airborne fibers." In practice this is usually achieved by use of a water spray during demolition. 6 Project sponsor would comply with applicable regulations regarding asbestos during site preparation, demolition and remodelling phases of the project.

Project sponsor would meet with a representative of the DHS Hazardous Wastes Section to discuss demoliton procedures before completing the demolition contract, in order to insure that the contract adequately reflects the special nature of the site and to avoid potential delays due to lack of understanding of special demolition requirements by the demolition contractor.

<u>Impact</u>. Buildings to be retained may have asbestos-containing interior finishes.

<u>Mitigation</u>. Project sponsor would have the buildings to be retained checked. If interior finishes contain more than 1% asbestos, sponsor would have the material sealed or removed during renovation and prior to occupancy. Any removal would be done in a fashion to avoid exposure of workers or future occupants to asbestos containing dust.⁷

Impact. Occupants might breathe lead concentrations detrimental
to their health.

Mitigation. The highest risk of lead pollution to project residents would be from the freeway west of the site. This risk would be mitigated by installation of windows that do not open in units along Kansas Street (the west side of the project). These units would have mechanical ventilation systems. The air intake for this ventilation system would be located as far east on the proposed project block and as high up as is feasible. The developer would implement this measure as part of the project.

Impact. The peeling, black, potentially carcinogenic layer inside the incinerator could be a source of human exposure to PAHs (poly-aromatic hydrocarbons); surface soil could be contaminated by PAHs.

- Mitigation. Project sponsor would seal the incinerator to prevent contact by project residents with hazardous PAH-containing materials. The EIR consultant, Selina Bendix, Ph.D., has recommended 3 safety measures: 1) seal the opening at base of incinerator; 2) seal the top of the chimney; and 3) remove enough metal rungs on the side of the chimney to prevent access and/or injury by and/or to unauthorized persons. Dr. Ephraim Kahn of the California Department of Health Services concurs in these recommendations. 8
- The opening in the base of the incinerator would be sealed in such a fashion that may material flaking off the inside of the incinerator could not get out and no one could reach in and peel off any of the black lining. The seal would not need to be airtight because PAHs are not volatile. Under these conditions, the potential for human exposure would be less than if the incinerator were demolished. Demolition would break up the lining into small pieces, thus increasing the risk of dispersion of the carcinogenic material in the air where people could breathe it. The entrance seal would be made in such a way that the arched shape of the opening would still be visible and the seal would not detract from the appearance of the chimney.

The State Department of Health Services has indicated concern⁵ that the exposed soil in the southeast corner of the site may have been subject to PAH fallout from smoke from the chimney. Before excavation this soil would be tested for PAHs. and if any are found, disposition of the soil would be discussed with staff of the Hazardous Materials Section.

The interior of the incinerator is not in contact with the soil and PAHs would move relatively slowly through the soil if such contact were to exist. This is because they are not soluble in water and material from inside the incinerator would be in particles larger than many of the soil particles and would move with difficulty between the soil particles.

The San Francisco Health Department has indicated a place where earth fill has been revealed by removal of floorboards by trespassers and requested that this soil be analyzed before demolition. Project sponsor would have this done."

Impact. According to the State Department of Health Services, 5 the upper levels of the building in the northwest corner of the site were used to mix and store dry paint ingredients which could pose a hazard during demolition.

<u>Mitigation</u>. Project sponsors would have the area inspected for residual paint ingredients and, if found, have these materials removed prior to demolition.

Impact. The distribution pattern of high lead and zinc values in soil on the site is not known. Some soil samples have excessive levels of cadmium and mercury. Contact with these soils could be hazardous.

Mitigation. After removal of the existing concrete floor slabs, project sponsor, in consultation with the State Department of Health Services, would have analyses made to determine the distribution of high lead, zinc, cadmium and mercury values on the site, and 1 to 2 feet of top soil in the contaminated area

would be removed and deposited in a hazardous waste dump if necessary.

Measures designed to mitigate lead and zinc exposure would also mitigate cadmium and mercury exposure unless differences in distribution are shown by further soil analysis. The State Department of Health would monitor analyses and advise as to appropriate mitigation measures, which would be followed by project sponsor.

The soil in the depressed area of the concrete floor of the 5 story building could contain toxic materials. This area would be subjected to chemical analysis and would be removed or sealed, if necessary and as appropriate, on the basis of these tests before the area is filled in to make it level with the rest of the basement parking area. Should any toxic material be found on analysis, the Hazardous Waste Section of the State Department of Health would be consulted before decision on disposition.

Should any information relevant to groundwater quality become available after demolition begins, Theresa G. Rumjahn, Sanitary Engineering Technician, Regional Water Quality Control Board, would be contacted. She would refer this information within the agency, per its operating rules.

Impact. The containers of chemicals on the site pose a hazard of fire and poisoning. The site is not vandal-proof.

• <u>Mitigation</u>. The project sponsor has removed hazardous substances from the site, in accordance with applicable regulations⁸ and in consultation with the State Department of Health Services.

Impact. Abandoned tanks beneath the sidewalk east of the site may contain hazardous materials.

Mitigation. In order to mitigate potential impact on construction workers, neighbors, and future occupants from toxic chemicals beneath the concrete slabs which now cover most of the site surface, the City Planning Commission or other City agency having approval power for this project would require that:

The subsidewalk tanks adjacent to the east side of the property and any other tanks on or adjacent to the site be opened, aired out, and any contents analyzed and disposed of according to applicable laws and regulations after consultation with the State Department of Health. The tanks would then be removed, as recommended by the Fire Department, to eliminate any possibility of hazard to construction workers or future project residents. Such removal would also permit removal of pipes from the tanks penetrating the retaining wall; these pipes would otherwise interfere with work to strengthen or replace the retaining wall. Removal would be done in such manner as not to undermine the street or substreet utilities. The holes left by the tanks would be backfilled in accordance with recommendations of a licensed engineer.

Should it prove to be technically inadvisable to remove the tanks, they would be filled with sand and otherwise rendered inert to the satisfaction of the Fire Department.

and b) If any subsurface storage containers which appear to contain chemical wastes should be encountered during excavation on the site, construction would be halted pending investigation by the Hazardous Waste Section of the State Dept. of Health Services.

Soil near the tanks would be analyzed to determine whether any toxic material has leaked from the tanks. Should any toxic material be found, it would be dealt with after consultation with the San Francisco Health Department Bureau of Environmental Health and DHS. Workers would be warned of potential hazards associated with the tanks. Torches would not be used to remove any part of the tank equipment until any contents were analyzed and found to be nonflammable, in order to avoid the risk of explosion.

Impact. Electrical equipment containing PCBs is a hazard for persons working on the site.

Mitigation. Project sponsor would require the demolition contractor to check the site for transformers and capacitors containing fluid. The contents would be analyzed for the presence of PCBs. Any PCBs found would be disposed of in accordance with applicable regulations after consultation with the State Dept. of Health Services. All spilled and leaked PCB-containing material would be removed and appropriately disposed of prior to initiation of demolition in affected areas.

- Impact. Trucks hauling toxic material from the site could be involved in accidents which would spill the toxic material.
- Mitigation. Project sponsor would instruct the demolition contractor not to truck demolition spoils away from the site during rush hours, in order to minimize the risk of accidents involving potentially hazardous materials.
- Impact. Workers could be affected by the toxic materials on the site.
- Mitigation. Project sponsor would put provisions in the demolition contract stipulating a) that the contractor would comply with all applicable CalOSHA regulations and b) that the contractor would request a consultation from the CalOSHA Consultation Service in order to obtain safety advice prior to commencement of demolition. A CalOSHA permit is required for demolition, pursuant to Cal. Admin. Code, Title 8, § 341(3), which applies to demolition of all buildings more than 3 stories high.
- Legal control over the disposal of PCBs was established by § 6(e) of the Toxic Substances Control Act of 1976 (15 USC 1605). PCBs are designated as extremely hazardous wastes in § 66685 of the California Administrative Code, Title 22, Division 4. A special permit from DHS is required for the disposal of extremely hazardous wastes, pursuant to § 66570. During renovation of the

5-story building, elevator hydraulic systems would be examined for the presence of PCBs. If PCBs are found, the City Health Department and DHS would be consulted about appropriate action. EPA Status Report 8EHQ-0780-0352 indicates that elevators of the size found in this building may have PCBs in their hydraulic systems. DHS staff would supervise the removal of PCB-containing electrical equipment and any concrete or other materials on which PCBs have spilled.

F. Energy

<u>Impact</u>. The production of aluminum and copper is energy intensive.

<u>Mitigation</u>. Project sponsor would instruct the project architect to specify materials less energy intensive than aluminum and copper wherever possible.

Impact. Heat gain and loss through windows often determines the heating and cooling needs of a building.

Mitigation. Windows on the west side of the proposed project would be double pane glass which would decrease heat loss from units during colder months. Heating season energy savings from use of double pane glass are given in the following table. Because these windows would not be openable, a mechanical ventilation system would be required. The energy required to operate this ventilation system would partially offset the energy savings from the double pane glass.

TABLE 11: SAN FRANCISCO HEAT LOSS THROUGH SINGLE- AND DOUBLE-GLAZED WINDOWS

Single-Pane	Double-Pane	Reduction in Heat Transfer	
49,600	25,600	24,000	
43,900	23,700	20,200	
41,700	23,200	18,500	
	sq. ft. Single-Pane 49,600 43,900	49,600 25,600 43,900 23,700	

Source: Adapted by Bendix Environmental Research, Inc. from Dubin, Fred S. and Long, Chalmers, G., "Energy Conservation Standards for Building Design, Construction, and Operation." McGraw-Hill, 1978, p. 123.

See definition of BTU on page 71.

Impact. Energy used by the project would deplete nonrenewable
resources.

Mitigation. At least 50% of the energy required to heat the swimming pool would be derived from passive or active solar heating. Project sponsor would instruct the project architect to investigate use of solar panels for domestic hot water heating on south facing roof slopes. Any decision on the use of solar collectors would be made on the basis of cost effectiveness prior to detailed roof and plumbing design.

Before making a decision on the use of solar collectors, project sponsor or architect would contact the State Solar Business Office in Sacramento regarding experience with solar design of other multifamily projects or instruct project architect to do so.

If project sponsor should decide not to use solar collectors, he would instruct project architect to consider the following measures:

- 1. Incorporation of passive design features to minimize summer solar heat gain and maximize winter solar heating.
- 2. Design of as much of the roof areas as possible, within Planning Code height limits, at an angle appropriate for future solar collector installation.
- 3. Design of roofs with access for future solar collector installation and maintenance.
- 4. Design of buildings to take the weight of future solar panels.
- 5. Specification of plumbing connections appropriate for future solar installation. (As now required in Santa Clara County). 10
- 6. Provision of space for a solar heat transmission fluid storage tank and controls or installation of same initially. (The collectors, not the tank and controls, are the most expensive portion of a solar installation.)
- 7. Reuse of swimming pool water to decrease both water consumption and energy use associated with water use.

Impact. Space heating and cooling use nonrenewable energy
sources.

Mitigation. Project design will conform to the California energy insulation standards (Title 24, California Administrative Code) for new buildings. In 1976 it was calculated that the payback period for the required insulation was 7-10 years. 11 All hot water pipes will be insulated with a nonasbestos-containing material to reduce heat loss.

Impact. Low ventilation rates designed to reduce energy consumption allow buildup of toxic gases in building air.

Mitigation. Ventilation system(s) for the ventilated portion of the project on Kansas St. would be designed to provide no less than 0.5 air changes per hour so that indoor concentrations of any potentially toxic gaseous materials would be expected to be no greater than levels in older, less airtight, buildings.

<u>Impact</u>. Developments in which users are not individually billed for utilities tend to have higher energy and other resource consumption than those with individual meters.

<u>Mitigation</u>. Project sponsor would consider individual metering of water, gas and electricity for the units. The decision would be made before detailed plumbing plans are completed.

G. Structural Safety

<u>Impact</u>. Structures designated for retention may not be earthquake safe.

Migitation. The buildings and walls designated for retention, shown on Exhibit No. 3, page 6, were built prior to the existence of present seismic safety provisions in the San Francisco Building Code, and their potential stability in an earthquake is unknown. The Bureau of Building Inspection would require that these walls and the 5-story building be brought into conformity with present Building Code provisions, if necessary.

Impact. Movement of the retaining wall could endanger structures next to the wall, sidewalk safety, and utilities in Rhode Island Street.

Mitigation. Project sponsor would retain a California licensed engineer to examine the retaining wall, consult with the Department of Public Works, and make recommendations regarding strengthening or replacement of the retaining wall, if needed.

Should replacement of any part of the wall be necessary, this would be done with care to maintain the integrity of Rhode Island Street and its subsurface utilities. 12

The Department of Public Works would review the disposition of the retaining wall, and structural engineers in the Bureau of Building Inspection would review design of buildings against the wall before issuance of building permits.

Project sponsor would put a provision in construction contracts requiring contractors to request a consultation with the CalOSHA Consultation Service prior to commencement of construction to insure that safe practices are used in dealing with the retaining wall and other aspects of construction on the site.

H. Traffic

Impact. Delivery trucks could affect traffic on 23rd St.

Mitigation. Project sponsor would request commercial tenants to schedule deliveries at non-rush hour times whenever possible. Project sponsor would request the Department of Public Works to evaluate the need for a yellow loading zone near the commercial space.

Notes: Mitigation Measures

- 1. STC = sound transmission coefficient, the ratio of transmitted to incident sound energy, a means of characterizing the noise insulation characteristics of materials.
- 2. Charles M. Salter, P.E., 2222 Ltd. EIR Acoustical Report, 28 August 1980.
- 3. Technically, the Ordinance prohibits activities producing more than 5 dBA above ambient noise levels at the nearest property line. In some cases the Dept. of Public Works issues special permits for night construction. This would be unlikely in a residential area.

4. Telephone conversation with EIR subconsultant Selina Bendix, 30 June 1980.

- 5. Dr. David J. Storm, Regional Administrator of the Hazardous Materials Management Section of the State Dept. of Health Services, in a letter to the Dept. of City Planning, Office of Environmental Review, dated 4 December 1980.
- 6. Applicable procedures are in a State Health memo of September 1977, available for public review at the Department's Office of Environmental Review, 45 Hyde Street, Room 319.
- 7. Applicable regulations are found in Title 8 of the California Administrative Code, BAAQMD regulations and the previously cited OSHA regulations.
- 8. Chief, Epidemiology Section, telephone conversation with Selina Bendix, 1 August 1980.
- 9. Drums of possibly hazardous materials and pesticide containers were absent from the site at the time of EIR consultant field check on 25 November 1980.
- 10. Ordinance Requiring Solar Hot Water Heater for Residential Domestic Use, NS1208, adopted 23 June 1980, effective 1 February 1981. Bob Sturdivant, Senior Planner, Santa Clara County, telephone conversation, 18 February 1981.
- 11. California Department of Housing and Community Development, Division of Codes and Standards, "Energy Design Manual for Residential Buildings," 19 April 1976, Preface. San Francisco would be expected to be at the long end of this range due to its relatively even temperature compared to the rest of the state. Energy costs have probably increased more rapidly than estimated in 1976, so the payback period would be expected to be less than 10 years.
- 12. Cormac Brady, Senior Mechanical Engineer, Department of Public Works, has indicated that replacement of the retaining wall would have to be done carefully to avoid damage to sidewalk and street. Telephone conversation with EIR subconsultant, Selina Bendix, of 25 November 1980.

VI. ADVERSE ENVIRONMENTAL EFFECTS WHICH CANNOT BE AVOIDED IF THE PROPOSAL IS IMPLEMENTED

A. Land Use

Rezoning would increase the permitted density on the site.

B. Noise

During project demolition and construction phases which are expected to total about 21 months, there would be a temporary increase in noise levels in the project vicinity.

C. Energy

Operation of the proposed 132 dwelling units and 8,500 sq. ft. of commercial space on a site that currently uses no energy would increase consumption of electricity and natural gas by about 14,000 therms of gas per month and 41,000 kwh of electricity per month.

D. Air Quality

The proposed project would be 71 meters closer to the freeway than the distance recommended by the Bay Area Air Quality Management District for residential development.

E. Toxic Substances

Occupants of the proposed project may come in contact with hazardous polyaromatic hydrocarbons which are probably present inside the incinerator (see Mitigation Measures, page 90).

VII. ALTERNATIVES TO THE PROPOSED PROJECT

Three alternatives, in addition to No Project, have been selected for analysis in this EIR.

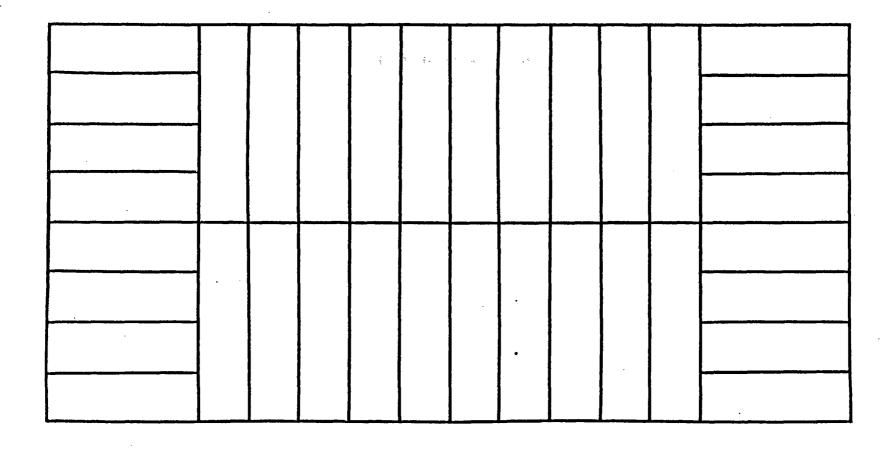
A. Low Density Alternative

The entire site could be cleared and replaced with dwellings consistent with the existing RH-2 (Residential, House, Two-Family) zoning. Using a mix of 25 by 75 ft. and 25 by 100 ft. lots, it would be possible to divide the 200 by 400 ft. site into 36 lots. Under the Planning Code RH-2 maximum of 1 unit per 1500 sq. ft. with a Conditional Use Permit, 53 units could be built on the site. With 36 lots this would give a mix of 17 duplexes and 19 single-family residences. With a PUD and Conditional Use, 53 units could be built with common open space. (See Exhibit 23, page 100.) The units could probably have 2 or 3 bedrooms.

The sale price of the units would have to be higher than for the proposed project, because there would be fewer units requiring a greater yield per unit for a positive return on the sponsors' investment. These units would not reflect the reduction in cost per unit from rehabilitation of the two structures retained in the proposed project.

While it would maintain the neighborhood character, this alternative would create fewer housing opportunities for ownership for area residents, because the smaller number of units would be higher priced and would not provide the range of household sizes of the proposed project.

Alternative A would comply more closely with Objective 2, Policy 1, of the Residential Element of the Master Plan than the proposed project, because the RH-2 density would be closer to that of the surrounding development. It would not meet Objective 4, "Minimize hardships caused by the increased cost of housing," because the units would be more expensive than those in the proposed project.



Rhode Island, Street

Low Density Alternative

Possible lot layout

0 25'



Exhibit No. 23

Alternative A would have smaller traffic impacts than the proposed project because it would generate fewer trips. This alternative would have greater parking impacts due to reduction of on-street parking spaces because of driveway curbcuts. Per unit parking demands would be greater for Alternative A because the owners of more expensive units would have more cars.

The energy consumption, water consumption, and solid waste production would be on the high side of 40% of that due to the proposed project as use would be slightly more than a straight percentage of the number of units because of 1) the larger average unit size and 2) the higher economic level of the occupants.

Removal of the chimney as an architectural reference point would elimnate an architectural resource and possibly expose construction workers and neighbors to the chemical compounds inside the chimney during demolition. Other waste disposal and potential toxicity problems would be similar to those anticipated for the proposed project.

This alternative was rejected because it would not be profitable to the project sponsor.

Subalternatives. If a duplex were to be placed on each lot, 72 units could be built. Units on the 25 x 75 ft. lots would tend to be small, probably with one bedroom. Energy consumption, water consumption, and solid waste production would be about 55% of that of the project. This subalternative was rejected for the same reason as stated above.

B. High Density Alternative

This alternative would cover the entire site and could be designed with or without commercial space. Units would surround a parking deck, as shown in Exhibit 24, page 104. Swimming and tennis facilities might be located on the roof of the structure. A total of 200 units could be approved for the site if its zoning were reclassified to RM-3 (Residential Mixed District, Medium Density). The Planning Code would require 200 off-street parking spaces.

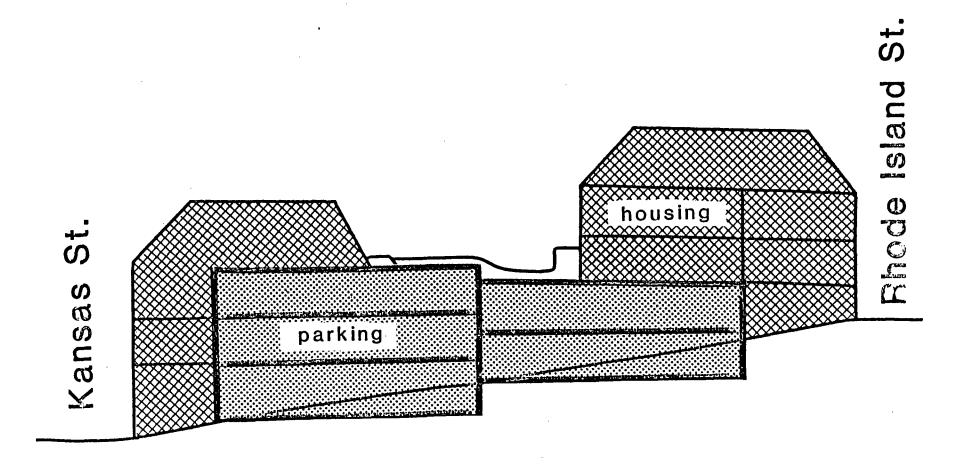
The economic impacts of this alternative would be less than those of Alternative A, or the proposed project.

While this alternative would be in greater compliance with Master Plan policies regarding home ownership opportunities and larger-sized units than the other alternatives, the design would not conform to the character of present development in this neighborhood.

If no commercial space were included, this alternative would result in an average 500 weekday vehicular trips, 240 less than the expected 740 with the proposed project. Other impacts associated with such a project (for example, parking, water use and energy consumption) would be increased by about one-half because of the additional 63 units. If the same amount of commercial space as proposed were included, 370 additional trips per day would be expected, for a total of 870 trips. Adding 40 commercial and residential delivery trips would give 910 total trips or 22% more than the proposed project. Parking demand would probably saturate parking on the streets bounding the project.

This alternative was rejected because it would be out of scale with the neighborhood and project sponsor considers that approvals would be more difficult to obtain.

<u>Subalternative</u>. If 20 of the 200 units were to be designed for the elderly, this would decrease required project parking, for this alternative, from 200 spaces to 184 and would probably decrease neighborhood parking impacts. This alternative was discarded for the reasons stated above.



High Density Alternative/Transverse Section

Not to scale

Exhibit No. 24

C. Mixed Housing Types Alternative1

Alternative C would contain 132 units, evenly divided (44 each) among three types: market-rate units, moderate income units, 2 and low income 3 rental units. This alternative would have the same number of units as the proposed project and would be built on the same site with a similar design. Market rate and moderate income condominiums would be combined with Section 84 subsidized low income rental units owned and operated by the project sponsor or an independent entity created for the purpose.

HUD⁵ Section 8 funds could be used for family housing that contains no more than 20% 1-bedroom units and at least 5% 3-bedroom units. Section 8 is a rent subsidy program under which rent in excess of 25% of a low-income household's monthly income can be paid by HUD. The maximum rent for such units, called the Fair Market Rent (FMR), is given in Table 12, page 104. The proposed project would contain about 32% studios plus 1-bedroom units and 7% 3-bedroom units, so the unit mix would have to be shifted or a disproportionate fraction of the larger units would have to be Section 8 units. If the unit mix were shifted to more 2-bedroom units without changing the design (changing the design would decrease the amount of interior courtyard space), then room size in the units would decrease.

TABLE 12: MAXIMUM HUD FAIR MARKET RENTS

	Elevator (2-4 Stories)	Walk-Up
Studio	\$512	\$461
1-bedroom	612	534
2-bedroom	782	697
3-bedroom	961	849

Before approving a project such as Alternative C, HUD would consider the feasibility of the project, taking into consideration such factors as the number of subsidized units already in the area, the marketability of the project and the possibility of combining rental and sale units.

The 44 units of moderate income housing, to be affordable, could vary in cost depending on the size of the family and where in the 80 to 120% range household income might be. The limit of affordable housing cost for a moderate income household would be about 3 times the annual income, or \$85,000.6 In the proposed project some of the 1-bedroom units would be within this range and the rest of the units would be above the price range for moderate income housing.

Assuming that the unit mix were not changed, the 44 Section 8 units would have to be made up of 3 three-bedroom, 33 two-bedroom and 8 one-bedroom units, leaving 13 studios, 21 one-bedroom units, 48 two-bedroom and 6 three-bedroom units to divide between moderate and market rate housing. Further assuming the maximum cost of \$85,000 for all the moderate income units, regardless of size, as a rough estimate the maximum sales income from the market rate and moderate income units would be as shown in Table 13.

Income from the sale of the 88 condominium units would be about half of the income of the proposed project, and would cover about 60% of development costs.

Assuming that HUD maximum rents would be charged in all the rental units and making conservative cost estimates, net rental income would be as indicated in Table 14, page 107.

Assuming constant 1981 dollars, it would take about 23 years to pay the remaining 40% of the cost of the development, without taking into account financing costs. In the first 20 years net rent would be \$5,020,000, leaving a minimum loss to project sponsor in 20 years of roughly \$780,000; debt service would be an additional loss.

Project sponsor has rejected this alternative as economically unfeasible.

TABLE 13: ALTERNATIVE C MAXIMUM POSSIBLE SALES INCOME

	Alte	_	
	Moderate <u>Income</u>	Market Value	Proposed Project
No. studio units/ \$ per unit	6/\$85,000	5/\$106,000	13/\$106,000
No. 1-bedroom units/ \$ per unit	10/\$85,000	11/\$ 82,000	29/\$ 82,000
No. 2-bedroom units/ \$ per unit	24/\$85,000	24/\$133,000	8/\$133,000
No. 3-bedroom units/ \$ per unit	3/\$85,000	3/\$191,000	9/\$191,000
Total units/total \$ sales value	44/\$3,740,000	44/\$5,200,000) .
Alternative totals	88/\$8,9	940,000	132/\$16,200,000

TABLE 14: MAXIMUM POSSIBLE SECTION 8 INCOME PER YEAR

			
	\$ Monthly Rent	\$ Annual Rent	Net Annual Rent
8 one-bedroom units	\$ 4,270	\$ 51,300	\$ 36,000
33 two-bedroom units	23,000	276,000	193,000
3 three-bedroom units	2,500	31,000	22,000
Total annual net rent			\$251,000

Alternative D. AB 1151 Bonus

AB 1151, enacted by the California Legislature in 1979, provides that any multi-unit housing project over 5 units may be granted a 25% density bonus, automatically, if 25% low or moderate cost housing units are included, regardless of local zoning laws. In this Alternative the 25% bonus is added to the proposed 132 units, for a total of 165 units. Unit mixes have been set at the same proportional mix of types as the proposed project.

Unit numbers, prices and income are given in the table below. Project costs and income would be approximately equal so that it seems unlikely that sponsor would make any profit on this alternative. Project sponsor has rejected Alternative D for this reason. Demolition impacts of this Alternative would be the same as for the proposed alternative. Impacts that are a function of the number of units (e.g., traffic) would be about 25% greater than those of the proposed project.

The design of this alternative could be similar to that of the high-density Alternative C, or similar to that of the proposed project but with a smaller central open space. In either case, the need for a new design would increase costs and delay the project. Delay would increase financing and other inflation-related costs. These added costs could have been avoided if a decision to select this alternative had been made at the inception of the project; however, the unfavorable economics of Alternative D eliminated it from sponsor's consideration at the outset.

A. UNIT TYPES AND PRICES

	Number o	f_Units_	Approxima	te Prices
	Moderate	Market	Moderate	Market
Studios	3	13	\$85,000 ¹	\$106,000
One-Bedroom	7	29	82,000	82,000 ²
Two-Bedroom	20	81	85,000	133,000
Three-Bedroom	_3	<u>9</u>	85,000	192,000
Subtotals	. 33	132		
Total Units	16	5		

B. COMPARISON OF COSTS AND INCOME TO PROPOSED PROJECT

e e	Alterna	tive_D	Proposed Project		
	Moderate	Market	All Market ³	90% Market 10% Modera	•
Studios	\$ 255,000	\$ 1,378,000	\$ 1,378,000	\$ 1,357,000	(12/1) 4
One-Bedroom Two-Bedroom	574,000 1,700,000	2,378,000 10,773,000	2,378,000 10,800,000	2,378,000 10,400,000	(26/3) (73/8)
Three-Bedroom	255,000	1,728,000	1,728,000	1,621,000	(8/1)
Subtotals	\$2,784,000	\$16,257,000	\$16,284,000	\$15,756,000	
Rounded Total	ls. \$19,0	00,000	\$16,300,000	\$15,800,000	
Construction Cost	\$19,0	00,000	\$14,700,000	\$14,700,000	
Income/Cost	Ratio 1.0	5	1.105	1.075	

The limit of affordable housing cost for a moderate income household, see EIR page 105.

Note that the average price of these units is below the present moderate limit; therefore, as now planned the proposed project includes at least 14, or 11% moderate units.

Note that the proposed all-market-rate development actually includes at least 14 moderate, one-bedroom units. In the 90/10 alternative in the next column 10% of each type of unit is in the moderate class.

⁴ No. of Market Units/No. of Subsidized Units.

⁵ Note that these are approximate calculations with a probable error of about 10%.

Notes: Mixed Housing Types Alternative

- 1. This is similar to an alternative proposed by the Potrero Hill Community Development Corporation at a 7 July 1980 meeting of the Potrero Hill Advisory Committee.
- 2. Moderate income households are defined by HUD as households whose income is between 80 and 120% of the HUD-determined median income (\$23,400) for the San Francisco Standard Metropolitan Statistical Area (SMSA). A family of 4 with a household income between \$18,700 and \$28,100 would currently qualify as moderate income.
- 3. Low income is defined by HUD as households whose income does not exceed 80% of the median income for the SFSMA, as determined by HUD. Median income for a family of 4 is currently \$23,400 per year. A family of 4 with a household income of up to \$18,720 per year would currently qualify as low income. HUD expects these figures to be revised in July 1981.
- 4. Section 8 of the Housing and Community Development Act of 1974, usually referred to as "Section 8."
- 5. HUD information in this section is from a telephone conversation between EIR consultant Kreines and Kreines and Steve Grossman, Housing Representative, San Francisco Area, HUD, 3 February 1981, except where otherwise indicated.
- 6. Robert Jolda, Economist, Economic and Market Analysis Division HUD, San Francisco Area Office, telephone conversation with Bendix Environmental Research, Inc., on 11 February 1981. This limit drops during periods of high interest rates so it is possible that none of the units in the proposed project would qualify as moderate income.
- 7. Assuming 10% management cost, 5% repair and maintenance cost, 10% utility cost, and 5% taxes.

D. No Project

The no project alternative would be inconsistent with the Master Plan, Residence Element, policy to "Encourage the conversion of underused non-residential land to residental use...," would provide no housing, and would yield no profits to the sponsor. There would be no construction or operation impacts associated with new development.

Deferral of a development decision would leave options for use of the site open for the future. Because this site is surrounded on 3 sides by residential development, it is unlikely that a new industrial use would be considered appropriate there. As there is commercial development 3 blocks east and west of the site, it is also unlikely that an entire block of commercial use would be considered by developers interested in the site. City policy, both in the Master Plan and in Proposition K, approved by City voters on November 4, 1980, encourages provision of new housing in the City. Whenever the decision is made to permit development of the site, residential or residential plus commercial development are the uses most likely to be approved. See Impacts Chapter Section M. for future construction in San Francisco.

The site is now vacant, and recent vandalism is evident throughout the interior of the structures. As there are hazardous substances, such as asbestos and PCBs, on the site, the property could have greater impacts on human health and safety with the no project alternative.

SUMMARY OF COMMENTS AND RESPONSES

List of Commentors

- Jim Firth, Potrero Hill League of Active Neighbors, president, oral comments.
- Lee Brown, representing Local 2 of the Culinary Workers Union and the Coalition of Black Trade Unions, oral comments.
- Patricia Sands, neighborhood resident, oral and written comments.
- Paulette Faison, Potrero Hill Public Housing Tenants Association, president, oral comments.
- Christopher Sabre, neighborhood resident, oral and written comments.
- Jim Queen, Potrero Hill Community Development Corporation, executive director and neighborhood resident, oral and written comments.
- Ron Dicks, Potrero Hill Community Development Corporation outreach director and neighborhood resident, oral comments.
- Bob Bradford, representing the Potrero Boosters and Merchants Association, oral comments.
- C. Mackey Salazar, San Francisco Planning Commission, oral comments.
- Toby Rosenblatt, San Francisco Planning Commission, president, oral comments.
- Charles Q. Forester, Director of Planning, Association of Bay Area Governments, written comments.
- James Faye, Potrero Hill resident, written comments.
- Jean Loura, Potrero Hill resident, written comments.
- Theresa G. Rumjahn, California Regional Water Quality Control Board, San Francisco Bay Region, written comments.
- David L. Storm, Ph.D., Regional Administrator, Hazardous Materials Management Section, California Department of Health Services.
- Lawrence Goldberger, Director, Housing Division, San Francisco Area Office,
 Department of Housing and Urban Development.

Comment and Response Topics

0.

Comment summaries are organized by topic according to the list below. Commentors' names are in parentheses after the comments.

		Page
1.	Project Description	3
2.	Toxic Materials Safety	5
3.	Traffic	13
4.	Energy	19
5.	Density and Bulk	20
6.	Zoning and the Neighborhood Plan	21
7.	Economics and Employment	22
8.	Victoria Mews	34
9.	Mitigation Cost	36
10.	Notification	36
11.	Department of City Planning Staff-Initiated Text Changes	36

1. Project Description

COMMENTS

"On page 42, line 7, there is a reference to a hollowed square building and that needs defining. I don't understand what that is." (Commissioner Rosenblatt)

"I live two blocks up the hill, and I think the proposal is that...the low side of the project, is five stories high. If they could extend it five stories as it moves up the hill, which it doesn't do now, it would increase by whatever that elevation is, which I roughly estimate would take out quite a bit of the vision out of my front window, and I wouldn't be able to see out of that window any longer, and I live quite a bit up the hill." (Christopher Sabre)

"On page 39, at the very bottom, there is an indication that the main portion of the building at 24th and Kansas is about 60 feet tall, and at some point in the project description, that should be made clear. It discusses it here in the context of a regulatory item, but it should be up earlier in the project description. (Commissioner Rosenblatt)

"On page 41, at the end of the first paragraph, it describes the existing building as being in neighborhood scale because it has been there. Scale is not a matter of time. Scale is a matter of relative size. I think that needs clarification. (Commissioner Rosenblatt)

"On page 16, under "TABLE I. UNIT TYPES AND PRICES," I am assuming those are all market rates, and there should be an inclusion of the subsidized units in the event that public subsidies are found to be available." (Commissioner Rosenblatt)

"Not only is it a matter of identification of the poor people being moved out; in addition, 132 high-rise expensive units [are] being put in..." (Ron Dicks)

"The EIR does not address the type of commercial/retail uses to be housed on the site. In PLAN's letter to the City Planning Department (12-19-80) we requested that analysis be made of the types of uses in relationship to neighborhood service needs and impacts on existing nearby commercial uses. This question was not covered in the Draft EIR." (Jim Firth)

"On pages 1 and 4, should be a specification of the planned commercial space, how big, and what potential uses." (Commissioner Rosenblatt)

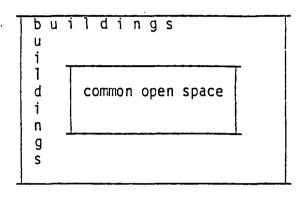
"I request that a study be done to determine what kind of commercial establishments the neighborhood needs and have these spelled out in the final EIR and plan." (Patricia Sands)

"I found this project, in terms of reading the EIR diagrams, very hard to read. I think it would be very useful if there was some kind of model, as simple as a cardboard box, something to give us a better sense of what it is going to look like, in three dimensions....That is not a requirement,

as far as I am concerned, for an adequate EIR. When it comes to the permit hearing, I think that would be useful." (Commissioner Rosenblatt)

RESPONSES

On page 42, line 7, "hollowed square building configuration" has been replaced by the following text starting at line 6: "to the extent that it would preserve the present height and bulk pattern and configuration of development at the perimeter surrounding central open space." (See diagram at right.) The word "although" has been deleted and a new sentence started with "Buildings." Note that ¶ 3, EIR page 7, states "The



buildings would be around the perimeter of the site, surrounding common open space which may include a swimming pool."

The only 5-story building in the proposed project would be the existing building at 24th and Kansas Streets. All new buildings would conform to the 40 foot height limit. Thus, any effects of the 5-story building on views exist now.

On page 1, \P 1, line 7, "60-foot-tall" has been inserted before "building." On page 4, \P 3, line 5, "5-story" has been added before "warehouse." On page 7, \P 1, line 4, ", approximately 60-foot" has been added in front of "building."

No high-rise units are included in the project (high-rise is usually used to refer to buildings over 6 stories). On page 4, the following sentence has been added at the end of \P 4: "These limits would not apply to the existing 60-ft. warehouse."

On page 41, ¶ 1, the last sentence has been deleted.

TABLE 1. UNIT TYPES AND PRICES, EIR page 16, has been revised as shown on page 5 of this document.

No one lives on the site; therefore, the project would cause no relocation.

The size of the commercial space is described on DEIR page 1, § 1, line 2 and page 4, § 3 as 8500 sq. ft. The following § has been inserted on EIR page 7, after § 1: "The project sponsor's first choice for the commercial space would be a grocery. The commercial space may be subdivided into 2 or 3 units. Tenants which would be considered include cleaners, laundromat, beauty parlor or neighborhood restaurant. Potentially disturbing uses such as a disco or bar would be excluded. The condominium agreements would include an indication that the commercial uses would be limited to neighborhood-oriented businesses which would not produce noise or fumes or otherwise

TABLE	. 1	HNIT	TVDFC	ΔMD	PRICES
INDLE		UNII	IIFES	MNU	LUICES

Unit Types	No. of Units Market Subsidized*	Expected Prices (March 1981 Dollars)
Studios One-Bedroom Two-Bedroom Three-Bedroom	$ \begin{array}{cccc} 13 & 1 \\ 29 & 3 \\ 81 & 8 \\ \underline{9} & 1 \\ 119 & 13 \end{array} $	\$ 99,000 - \$113,000** 71,000 - 93,000 99,000 - 167,000 172,000 - 209,000
Total Units	132	

interfere with the residential character of the project." A survey of neighborhood commercial use needs is beyond the scope of the EIR for this project.

The closest commercial use in the neighborhood is the grocery at Kansas and 23rd Sts. across the street from the site. A new grocery could take some patronage away from the existing store. It is not possible to predict how patronage by residents of the new units would split between two groceries. The proposed project would provide new patrons for the existing store, which could offset losses in present patronage.

A model of the project will be available for the conditional use hearing before the Planning Commission.

2. Toxic Materials Safety

COMMENTS

"Toxic Waste Impacts -- although the EIR is very thorough in addressing this issue, we question the adequacy of the proposed mitigation measures. We question the toxic waste impacts and air pollution impacts on human health and safety during site preparation, construction and habitability for future residents, as well as neighbors including patients at S.F. General Hospital." (Jim Firth)

^{* 10%} of the units would be subsidized if a subsidy is available; all units would be market-rate without subsidy. The maximum price for a subsidized unit would be about \$85,000, regardless of size. See further discussion of housing subsidies on pages 30 to 34.

^{**} Prices of studio units would exceed prices of 1-bedroom units because the studio units would be larger.

"I am also very concerned about the toxic waste on the site, and I would like to see, before anything be done on this project, that all the mitigating measures be spelled out....There are several places in the report where the term of 'appropriate regulations' is used....I happen to work for lawyers and I know what 'appropriate regulations' mean. It means a way that you can shove things under the rug. We have a right to know what regulations are being referred to. I would like to have them spelled out." (Patricia Sands)

"I request that...compliance with all safety measures and regulations be insured." (Patricia Sands)

"I would also like to see that the appropriate state officials, whether they be OSHA or the Department of Industrial Safety, be on site for all demolition, site clearance and construction." (Patricia Sands)

"I...request that the appropriate local or state officials, including the Environmental Health Inspector of the S.F. Dept. of Health, the Hazardous Materials Management Section of the Calif. Dept. of Health Services, and a representative from the Bay Area Air Quality Management District, be on site for the demolition, site clearance and construction phases of the development to insure the health and safety of the neighborhood and the workers on the site." (Patricia Sands)

"The subject report states that there are 5 hazardous waste, or Class I, disposal sites in the Bay Area (page 68). However, within this Regional Board's jurisdiction there are only 3 Class I sites and 2 Class II-1 sites which may receive limited types of contaminated materials. The project sponsor should be aware of the appropriate disposal sites and should remain in close contact with the State Department of Health Services and the Regional Board on the issue of hazardous waste disposal." (Theresa G. Rumjahn)

"The toxic problems on the site, could be hazardous to the whole neighborhood, not only from dispersal of particles. Many of these chemicals have very low flash points, with the whole site exploding, and I will not feel comfortable with this project until we are assured in every way possible that it will be done safely." (Patricia Sands)

"They call for the removal of toxic waste out of the building. I want to know what street they are going to use, what time they are going to bring the stuff out, where they are going to take it, and how it is going to be disposed of." (Ron Dicks)

"We don't want any type of condition approved where the Potrero Hill people are going to be exposed to toxic material. So I think this plan as proposed by the developer calls for [strict] scrutiny on our part." (Ron Dicks)

"I identify and sympathize with many of the comments that were made relating to the safeguard and the protection that certainly has to be made regarding any of the materials that are a carry-over, toxic materials that might be left as a result of [the] Dutch Boy Paint factory." (Bob Bradford)

"On page 55 of the EIR it states that it is "probable that some toxic material is contained in dust and deposits on interior surfaces of some of the buildings to be demolished." It further states that material on the walls of one of the buildings south of the incinerator contains 60% asbestos. We feel that the developer owes the community a detailed explanation as to how they propose to safely demolish those structures." (Jim Queen)

"On the next page [90], at the top line, it indicates that the incinerator would be boarded up. That creates images of two-by-fours kind of nailed up on the side. I suspect that this is not what is intended. It ought to be more specific." (Commissioner Rosenblatt)

"There is a proposal inside the EIR that calls for sealing up toxic wastes on the property....I know I would have a problem if somebody was trying to sell me a condominium that has toxic waste sealed up on the property.... In case of any type of earthquake, be it minor or major, I don't know what that is going to mean, not only for the people living in Potrero Hill, but in all of San Francisco." (Ron Dicks)

"I would be concerned if, three blocks from my house, there was toxic waste being stored and there was an earthquake. I would be wondering what was happening here." (Ron Dicks)

"On page 89, the last paragraph, discussing the material that's inside the incinerator, it raised the question about the soil possibly being contaminated, but I don't believe that there was anything later on that dealt with the question of whether -- if that happens and that incinerator is retained and just closed off, is there not a danger of continuing leakage into the soil, and what mitigation measures are necessary to prevent that?" (Commissioner Rosenblatt)

"The soil analysis done for the EIR is incomplete. 'Zinc, lead, and chromium were found to be above normal in samples other than the surface sample.' [EIR page 61] How much above normal? How does developer propose to determine how widespread zinc/lead are in soil? The questions surrounding the levels of lead and zinc present below topsoil demands serious attention and answers. The EIR report does address the situation that could possibly exist if lead reaches dangerous levels." (Jim Queen)

"On page 91, second full paragraph, there is a discussion about the soil under the depressed area of the concrete floor. It raises the question in my mind about the conditions of the soil underneath everything that is going to be retained. I didn't go back to check this whole section thoroughly, but it raises a question of how to determine what the condition of the soil is under those sections that are to be retained, and if there is any evidence of contamination, what is to be done about that?" (Commissioner Rosenblatt)

"Groundwater pollution from the site is not considered to be a problem at this time (pages 64-65). We do not anticipate any groundwater pollution problems provided contaminated materials are removed and disposed of properly, as specified in the mitigating measures section. The Regional Board should be notified of any additional groundwater information con-

cerning this project." (Theresa G. Rumjahn)

"I also felt uneasy about some of the mitigation measures discussed with respect to the toxic materials. In those specific instances where it indicates project sponsor is considering a mitigation measure, I would hope by the time we get to the permit process, that they have made all those decisions and the appropriate conditions are created." (Commissioner Rosenblatt).

"The toxic chemical issue scares me, as I believe it must frighten anyone in the vicinity. Others have dealt with this problem and I needn't go into it." (James Faye)

"You [the Office of Environmental Review] specifically asked if the February 1981 EIR adequately responds to the concerns covered in our letter of December 4, 1980. The February 1981 EIR does adequately respond to our [State Department of Health Services, Hazardous Materials Management Section] concerns." (David L. Storm, Ph.D.)

RESPONSES

Note that wherever the EIR states that the project sponsor "would" do something this means that if the project is approved the sponsor's action will take place. "Would" is used because the action would not take place if the project were not approved.

As indicated on EIR pages 54 and 91, most of the toxic and flammable wastes have been removed from the site in accordance with instructions from the State Department of Health Services (DHS) and in compliance with the California Administrative Code, Title 22, Division 4, Chapter 30, Article 5. "Hazardous Waste Hauler Registration" and Article 6. "Requirements for Management of Hazardous and Extremely Hazardous Wastes." Flammable materials with a low flashpoint in containers larger than 1 gallon have been removed from the site. The wording of the first mitigation measure on page 91 has been changed to "The project sponsor has removed..." in order to make clear that this action has been completed.

The required soil testing program, to follow demolition, and procedures for any removal of contaminated soil must be approved by DHS and implemented by sponsor before construction. A ¶ has been added on page 89 after ¶ 1: "Project sponsor would meet with a representative of the DHS Hazardous Wastes Section to discuss demolition procedures before completing the demolition contract, in order to insure that the contract adequately reflects the special nature of the site and to avoid potential delays due to lack of understanding of special demolition requirements by the demolition contractor."

Related mitigation measures have been added on EIR page 92:

"Impact. Trucks hauling toxic material from the site could be involved in accidents which would spill the toxic material.

"<u>Mitigation</u>. Project sponsor would instruct the demolition contractor not to truck demolition spoils away from the site during rush hours, in order to minimize the risk of accidents involving potentially hazardous materials.

"Impact. Workers could be affected by the toxic materials on the site.

"Mitigation. Project sponsor would put provisions in the demolition contract stipulating a) that the contractor would comply with all applicable CalOSHA regulations and b) that the contractor would request a consultation from the CalOSHA Consultation Service in order to obtain safety advice prior to commencement of demolition. A CalOSHA permit is required for demolition, pursuant to Cal. Admin. Code, Title 8, § 341(3), which applies to demolition of all buildings more than 3 stories high."

Page 96, ¶ 4. The following text has been added at the end of the paragraph: "Project sponsor would put a provision in construction contracts requiring contractors to request a consultation with the CalOSHA Consultation Service prior to commencement of construction to insure that safe practices are used in dealing with the retaining wall and other aspects of construction on the site." CalOSHA would not send staff to the site during demolition unless a complaint were filed. The Environmental Health Section of the San Francisco Health Department does not plan to have an inspector on site (Paul Schwabacher, after site inspection on 28 May 1981).

As indicated on EIR page 62, the highest lead value obtained was 24 times the maximum "normal" soil level. A table comparing observed soil toxic element values with normal soil values is in Appendix C, on EIR page 138.

On EIR page 92, a new paragraph has been inserted after ¶ 3: "Soil near the tanks would be analyzed to determine whether any toxic material has leaked from the tanks. Should any toxic material be found, it would be dealt with after consultation with the San Francisco Health Department Bureau of Environmental Health and DHS. Workers would be warned of potential hazards associated with the tanks. Torches would not be used to remove any part of the tank equipment until any contents were analyzed and found to be nonflammable, in order to avoid the risk of explosion."

The remaining known toxic materials on the site are polychlorinated biphenyls (PCBs) in electrical equipment (EIR page 92), possible residual paint ingredients in the upper levels of the building in the NW corner of the site (page 90), asbestos (page 88), and potentially toxic dust in the buildings (page 88). As indicated in the Mitigation Chapter, pp. 88-92, these materials would be removed in a manner designed to minimize the potential for human exposure or environmental dispersion. Material would be removed intermittently during the usual daylight work hours of the contractor selected for the demolition work. (See also mitigation measure at the top of this page.)

The OSHA Safety and Health Standards (29 CFR 1910) provide that all asbestos waste "shall be collected and disposed of in sealed impermeable bags, or other closed, impermeable containers" (\S 1910.1001(h)(2)). Asbestos is the commonest, possibly the only friable (crumbly) material on the site. In

addition to the building indicated on EIR page 88, insulation on some pipes consists of a friable material that probably contains asbestos. Paul Schwabacher, Assistant Director of Environmental Health, San Francisco Health Department, feels that other materials on the site are not dusty enough to warrant any special treatment other than water spray to control dust generated by the demolition operation (he indicated that water spray would probably be used to cool the materials and lower fire risk, in any case). He feels there is no need to bag anything other than the asbestos materials. (Comments made during site visit on 28 May 1981.) The demolition contractor is required to notify the BAAQMD about demolition of asbestos-containing materials. That agency will determine the need for site inspection at the time of notification.

Asbestos is designated as a hazardous waste in Title 22, Division 4, Chapter 30 of the California Administrative Code, § 66680. Section 66490(b) provides that "Hazardous wastes that are classified as Group 2 or Group 3 wastes pursuant to Sections 2521 and 2522, Title 23, California Administrative Code, e.g., asbestos, may be disposed of at disposal sites that do not require a Hazardous Waste Facility Permit pursuant to Section 66370 of this Chapter."

Demolition debris would be disposed of at a Class II or Class III solid waste disposal site, as adopted by the California State Water Resources Control Board, 2 March 1972 (see "Solid Waste Management And The Bay Area Future," 1973, p. 115, for further information about classes of wastes and waste disposal sites). Class II sites are used for construction and demolition materials such as wood, metal, glass and cardboard. sites are used for construction and demolition wastes such as asbestos, earth, rock, concrete, plasterboard, glass and demolition material containing minor amounts of wood and metals. The choice of which Class II and III disposal sites would be used and of driving routes to these sites would be up to the demolition contractor. Class I, II and III sites are described in § 2510, 2511, and 2512, respectively, of Title 23 of the State Administrative Code. The classification of sites is based on geologic and hydrologic features of the disposal area and capability for protection of water quality. The categorization of wastes is based on the threat that they pose to water quality. Asbestos sampling and removal would be supervised by staff of DHS.

The beginning of ¶ 2, EIR page 68, has been revised to read as follows: "Materials on the site classified as hazardous must be disposed of at a special hazardous waste site. The Regional Water Quality Control Board has approved three Class I, hazardous waste disposal sites pursuant to § 14040(b) of the Porter-Cologne Water Quality Control Act. These sites are in the industrialized area of northern Contra Costa County and southern Solano County (Richmond Sanitary Service in Richmond, Industrial Tank Corporation in Martinez and Benicia). None of these sites accepts materials in drums...."

Some material may go to a Class II-1 site (Acme Landfill, Martinez, or Richmond Sanitary Service). Polluted materials to be deposited at a Class II-1 site must be approved by the Regional Water Quality Control Board (telephone conversation with Teresa Rumjahn, San Francisco Regional Water Quality Control Board, 22 May 1981). Class II-1 sites are sites which naturally or through modification are "capable of preventing lateral and vertical hydrau-

lic continuity between liquids and gases emanating from the waste in the site and usable surface or ground waters" (Cal. Admin. Code, Title 23, Chapter 3, \S 2511).

The following ¶ has been added after the end of EIR page 92:

"Legal control over the disposal of PCBs was established by § 6(e) of the Toxic Substances Control Act of 1976 (15 USC 1605). PCBs are designated as extremely hazardous wastes in § 66685 of the California Administrative Code, Title 22, Division 4. A special permit from DHS is required for the disposal of extremely hazardous wastes, pursuant to § 66570. During renovation of the 5-story building, elevator hydraulic systems would be examined for the presence of PCBs. If PCBs are found, the City Health Dept. and DHS would be consulted about appropriate action. EPA Status Report 8EHQ-0780-0352 indicates that elevators of the size found in this building may have PCBs in their hydraulic systems. DHS staff would supervise the removal of PCB-containing electrical equipment and any concrete or other materials on which PCBs have spilled."

DHS and San Francisco Health Dept. representatives may enter the site at "any reasonable hour of the day" for inspection (California Health and Safety Code, \S 25185).

The first sentence on page 90 has been modified to read: "Project sponsor would seal the incinerator to prevent contact by project residents with hazardous PAH-containing materials." and the following paragraph has been added after ¶ 1: "The opening in the base of the incinerator would be sealed in such a fashion that any material flaking off the inside of the incinerator could not get out and no one could reach in and peel off any of the black lining. The seal would not need to be airtight because PAHs are not volatile. Under these conditions, the potential for human exposure would be less than if the incinerator were demolished. Demolition would break up the lining into small pieces, thus increasing the risk of dispersion of the carcinogenic material in the air where people could breathe it. The entrance seal would be made in such a way that the arched shape of the opening would still be visible and the seal would not detract from the appearance of the chimney.

Earthquake vibration would first cause loose material inside the incinerator to fall to the bottom. Resultant contaminated dust would tend to be trapped inside the incinerator because of the seals at the top and bottom. If the incinerator cracked open, dust could escape. An earthquake strong enough to destroy the incinerator would be a disaster involving other multiple risks, orders of magnitude greater than exposure to carcinogenic dust. In case of an earthquake, the site would be more hazardous in its present condition than after demolition and construction because an earthquake could shake loose a cloud of dust containing toxic materials that would affect people downwind from the site and which could settle out onto houses and yards. So long as the existing chimney structure is not cut into and openings are sealed, no toxic dust would enter the air around the chimney.

As indicated on EIR page 90, possible contamination of soil in the southeast corner of the site could be due to particles settling out of stack gases

THE COMPANY COMPANY

The way are

from the incinerator when it was in operation, not from leakage through the soil from the base of the incinerator.

The following text has been added at the end of ¶ 2, EIR page 90: "The interior of the incinerator is not in contact with the soil and PAHs would move relatively slowly through the soil if such contact were to exist. This is because they are not soluble in water and material from inside the incinerator would be in particles larger than many of the soil particles and would move with difficulty between the soil particles."

"The San Francisco Health Department has indicated a place where earth fill has been revealed by removal of floorboards by trespassers and requested that this soil be analyzed before demolition. Project sponsor would have this done."

As indicated on EIR page 91, possible contamination of soil under structures to be retained would be indicated by analytic results of samples near the buildings and from the depressed area under the 5-story building. In the case of any indication of potentially hazardous concentrations of toxic materials, holes would be drilled in the concrete slabs of the building to be retained to permit additional samples to be taken for analysis. If potentially hazardous levels of toxic materials were found under the building to be retained, mitigation measures would be required by DHS. Possible mitigation measures would include sealing the surface of the slab with a painted or sprayed layer or covering the slab with a plastic vapor barrier and a new layer of concrete.

The following text has been added after ¶ 3, EIR page 91:

"Should any information relevant to groundwater quality become available after demolition begins, Theresa G. Rumjahn, Sanitary Engineering Technician, Regional Water Quality Control Board, would be contacted. She would refer this information within the agency, per its operating rules."

Line 7 of ¶ 3, page 88, has been changed to read "Project sponsor would implement this measure." The next sentence in that paragraph has been deleted.

Until the concrete slab is removed, additional chemical analyses performed, and analytic results evaluated, it is not possible to decide what mitigation measures are needed for potential hazards related to subsurface toxic materials. Sampling for these analyses would be supervised by DHS staff.

The Planning Commission and the Department of Public Works will not approve the proposed project unless they believe that residents of Potrero Hill and any other persons affected by the project would not be exposed to toxic materials at hazardous levels. As indicated on EIR pages 90, 91 and 92, project sponsor would be in contact with DHS to insure its approval of procedures to deal with toxic or potentially toxic materials.

DHS staff would supervise demolition and site cleanup activities. If these inspectors should feel that the demolition contractor is not proceeding safely, they would have the legal power to stop all activity on

the site (Health and Safety Code, Chapter 6.5, § 25181).

3. Traffic

COMMENTS

"We also question the location of such dense residential use adjacent to an air pollution ridden freeway." (Jim Firth)

"Freeway access to the site from the South is at the Army Street exit. One would take that exit and follow Potrero Avenue to 23rd Street, turn right and proceed 4 blocks to Kansas Street. (Jim Firth)

"I would like to see a better traffic survey be done. I think this was a little understated, the matter of traffic that would be caused by this project. I think there is considerably more." (Patricia Sands)

"The 23rd Street bridge across Highway 101 is the main access to southern Potrero Hill. There is access from Army Street providing one is driving east on Army, but the traffic flow to the Hill is much less here than at 23rd Street. I think the traffic on 23rd is much heavier than outlined in the EIR...and I think the increased traffic caused by the proposed development would be greater than anticipated by the EIR" (Patricia Sands).

"There are a lot of problems in this area right now having to do with the traffic, you know....I am living right there, I can see a lot of these problems." (Christopher Sabre)

"San Francisco General Hospital has just opened up an emergency entrance a couple of years ago at 23rd Street. You have a bridge, which is the only access to Potrero Hill, or one of the few accesses to Potrero Hill via Potrero. It goes across 23rd Street." (Christopher Sabre)

"At the intersection of 23rd and Kansas Sts. there is a concentration of 5,170 vehicles per day (EIR pg. 28 para 3). This intersection is only a few feet from the emergency entrance of San Francisco General Hospital. I often drive down 23rd St. through that intersection. I have on more than one occasion had to back up to allow the bus to turn the corner. This gets very tricky when you have a line of cars behind you and there is an ambulance behind the bus. Yet, the developers of this project are proposing a commercial use at this intersection. This business would have no off street access. Plus, they want to put an entrance to a residential parking lot there." (Christopher Sabre)

"S.F. General Hospital's emergency entrance is on 23rd Street just across the bridge from the proposed development and the impact on access to the hospital should be taken into account." (Patricia Sands)

"Traffic on 23rd Street is already heavy. The addition of 161 cars from such development as proposed could cause problems, but commercial space with no provisions for off-street loading and unloading would cause problems; especially at the intersection of 23rd and Kansas Streets, where buses negotiating that corner stop traffic flow even now." (Jean Loura)

"We have two buses that have just been added that go across the bridge. The street has just caved in a couple of weeks ago. I assume it is from the amount of weight of traffic that is being placed on that street." (Christopher Sabre)

"There are problems with several streets on the south side of Potrero Hill of which you should be aware: 26th Street between Kansas and DeHaro has been closed indefinitely due to the hill sliding; 25th Street between Rhode Island and DeHaro is a narrow, steep street which now must carry two bus lines (the 35 and the 19) because of the 26th Street cave-in, and 25th Street is now beginning to sink; the same block of 24th Street is so steep as to be impassable; and DeHaro between 24th and 25th is currently a dirt road whose future is uncertain. The condition of these streets may not directly affect the proposed development, but they have a direct negative impact on the neighborhood as is, and I respectfully request these conditions be looked into and taken into consideration in your final determination. I have documentation of all of the foregoing paragraph which I would be glad to provide to you if you wish." (Patricia Sands)

"The Wisconsin Site is three blocks away and is now scheduled to have 119 one to three bedroom units built on it in the near future...I don't think 23rd Street can handle the traffic that would be generated by both proposed developments. I request that another traffic survey be done and that the additional units on the Wisconsin Site be included in the analysis of additional traffic caused by these developments." (Patricia Sands)

RESPONSES

The Bay Area Air Quality Management District (BAAQMD) has not received any complaints regarding air quality in the project area, including the latter part of the paint plant's full operational period (telephone conversation with Jack Bean, Senior Operations Officer, Enforcement Division, BAAQMD, 22 May 1981). See also EIR discussion pp. 54-58.

The last sentence of ¶ 1, EIR page 28, has been revised to read as follows:

"The connection from the south does not allow left turns from Army St. onto Vermont St. Therefore, freeway access from the south is more convenient at Mariposa St., from the Vermont St. exit 5 blocks north of the site, or from the Army St. exit (west to Potrero Ave., north on Potrero, and east on 23rd. St. to the site)."

The following sentence has been added to the <u>Transit</u> paragraph on EIR page 30:

"The 19-Polk and 35-Eureka lines cross over the James Lick Freeway on the 23rd St. overpass, an entry route to the Potrero Hill area." Prior to 10 September 1980, the 19-Polk line was split into 2 service routes, one of which went to Potrero Hill. All 19-Polk buses now go to Potrero Hill. There are 12 coaches on this line from 9-4 pm and 14 during the peak at 4-6 pm. No changes have been made in 35-Eureka service in this time interval. (Susan Chelone, MUNI Planning, telephone conversation, 27 May 1981). A field check by Bendix Environmental Research, Inc. on Tuesday, 12 May 1981,

found that from 3:00 to 4:15, buses on the 19-Polk and 35 Eureka lines were about one-half full and from 4:15 to 6:00 they were about two-thirds full. Assuming peak project generation of 25 passengers per line and 5 buses per hour, the resulting 5 additional passengers per bus could be accommodated by the present schedule, as each 48-seat bus would have an average of 16 vacant seats. (See also EIR page 48, ¶ 2.)

Paragraph 4, page 49 has been revised as follows:

"On the streets bounding the project, the 3-6 pm parking demand from neighboring uses is 66 spaces which would leave 81 or 55% of the spaces for project-related parking. If the worst case demand for 42 off-site spaces should occur, this would leave 39 or 27% of the spaces available for party parking, etc. Within a 1-block radius of the site there are an additional 288 spaces. From 3-6 pm 153 or 53% are filled (field check by Bendix Environmental Research, Inc., 12 May 1981). Should parking demand from the proposed Wisconsin Street project extend as far as the area of the 2222 23rd St. project, 47% of this street parking would be available, should closer parking not satisfy the demand from the Wisconsin St. project."

The new traffic counts made since publication of the DEIR, and given in the table on page 16 of this document, are lower than the counts reported in the EIR. The EIR traffic discussion has not been altered, although given the new counts project-related effects would be expected to be less than those indicated in the discussion. The difference between the two sets of traffic counts indicates that present daily traffic variability is an order of magnitude greater than the predicted project-related traffic increase.

Traffic accident records for the project area are given in the table on page 17. The information in the table suggests that accidents in the project area are most commonly caused by speeding and are not due to traffic congestion.

As indicated on page 48, \P 3, the 23rd St. parking entrance would provide access to 16 parking spaces. This is not expected to affect average traffic flow on 23rd. St.

Provision of off-street loading/unloading space would reduce either the number of square feet of housing or the size and desirability of the project's central open space. Traffic interference due to delivery trucks could be minimized by scheduling deliveries at non-rush hour times or by provision of a yellow curb loading zone.

The following text has been added after ¶ 4, EIR page 96:

" H. Traffic

"Impact. Delivery trucks could affect traffic on 23rd St.

"Mitigation. Project sponsor would request commercial tenants to schedule deliveries at non-rush hour times whenever possible. Project sponsor would request the Department of Public Works to evaluate the need for a yellow loading zone near the commercial space."

	TABLE 15.	COMPARISON OF	2/4/81 AND	5/12/81 TRAFFI	c counts ¹
Street	Date	Time	No. of Vehicles .	Calculated Vehicles/hour	Notes
24th Street	5/12/81	3:00-3:15	3	12	Feb. count within range of May
	5/12/81	4:00-4:15	6	24	counts
	2/4/81	4:15-5:15	_2	10	
	5/12/81	5:00-5:15	1	4	
Kansas Street	5/12/81	3:15-3:30	37	148	Feb. count about 40% higher than
	5/12/81	4:15-4:30	37	148	May counts
	2/4/81	4:15-5:15	_	210, 215 ³	
	5/12/81	5:15-5:30	38	152	•
23rd Street	5/12/81	3:30-3:45	71	284	Feb. count about 45% higher than
	2/4/81	4:15-5:15	-	446, 450 ³	May counts
	5/12/81	4:30-4:45	78	312	
	5/12/81	5:30-5:45	75	300	
Rhode Island	5/12/81	3:45-4:00	9	36	Feb. count about 55% higher than
	2/4/81	4:15-5:15	_	74, 76	May counts
	5/12/81	4:45-5:00	12	48	
	5/12/81	5:45-6:00	10	40	

Friday, 2/4/81 counts made by Richard K. Hopper, P.E. Tuesday, 5/12/81 counts made by Bendix Environmental Research, Inc. (mid-block).

² one-hour counts only.

³ counted at 2 locations, differences due to cars parking or going into driveways between the ends of the block and/or to counting method.

TAT	RIF 16.	FIVE-YEAR	TRAFFIC	ACCIDENT	RECORD	FOR	PROJECT	AREA
Intersect		Date	Injuries				Cause	
23rd & Kai		8/18/76 5/13/77 9/15/78 2/15/79 10/13/79 6/14/80	1 0 1 2 0 2	5:45 12:50 1:55 6:00 9:15 8:20	pm pm pm am	speedi backin tailga speedi	g along s ting	street
23rd & Rho Island	ode	3/20/77 9/16/77 10/29/77 12/15/79	1 0 0 0	* 2:46 * *	pm	improp	driving er turn g on grad ng	ies
24th & Kar	nsas	9/29/80	0	12:05	am	speedi	ng	
24th & Rho Island	ode	3/18/76 10/20/76 12/3/77 4/25/80	0 U 0 0	1:10 7:55 1:30 3:20	pm am	speedi speedi		

Information from records at the Department of Public Works.

Regarding the collapse on 23rd St., a 12-inch water main on the 23rd St. bridge broke at about 9 am on 9 January 1981. Water from the broken pipe washed soil out from under the pavement and the street collapsed on the south side of the intersection of 23rd and Kansas Sts. The pipe was repaired on 9 January and the street was repaved the next day. (Edmund Brodie, Superintendent of Construction and Maintenance, San Francisco Water Department telephone conversation, 18 May 1981.)

Twenty-Sixth Street was partially closed between Kansas and DeHaro in about January 1981 and completely closed in about April because of slide damage on the south side of the street and drainage problems. Western Pacific Railroad owns this slide area and must stabilize the slope before the street is repaired. The City hopes to repair the street in summer of 1981 before the rainy season; the timing of repair depends on Western Pacific. (William Scruggs, Section Head, Structural Design Section, Bureau of Engineering, Department of Public Works, telephone conversation, 4 June 1981)

On page 46, sentence 2, ¶ 3 under <u>Transportation</u>, has been changed to read: "It is estimated that 60% of the projects' 59 peak hour trips, or about 35 trips, would be added, for a traffic increase of about 7% over the present peak hour traffic volume of about 520 vehicles on 23rd Street."

^{*} Time information not available.

The 23rd Street emergency entrance to San Francisco General Hospital went into use in August 19/6, when staff moved into the new facilities. The 7% predicted increase in traffic on 23rd St. would be less than the minimum 10% probable error of an individual traffic count. This means that the change could just as probably be a decrease or no change at all. The San Francisco Health Department Ambulance Service reports that it has had no difficulties with the 23rd and Kansas intersection (telephone conversation, Mr. Van Wort, 22 May 1981).

The peak traffic analysis on EIR page 46 assumes that 12% of the trips per day would occur during the peak afternoon hour. Examination of Department of Public Works traffic counts (by Bendix Environmental Research, Inc.), indicates a range of 9-12% of trips per day during the peak hour; therefore, 12% is a reasonable percentage to use for worst-case prediction. If the project peak of 88 vehicles/hour should coincide with the present peak of 520 vehicles/hour, rather than occurring later (as predicted on EIR page 46), assuming 60% (or 53) of these trips on 23rd St., there would be a 10% increase in traffic. This increase is of borderline significance statistically and would not be expected to change the present traffic Level of Service A. Note that it is not possible to derive intersection traffic counts by adding the separate counts for the streets that intersect because this double counts all vehicles that turn from one street into the other. Thus the 5170 figure referred to in the comment about the 23rd and Kansas Sts. intersection, is not correct. See Appendix B, EIR pp. 121-127 for intersection counts at peak hour.

The following text has been inserted as EIR page 47a:

"A proposal for development of 120 units on the former Wisconsin Housing Project site is under review by the Department of City Planning (EE 81.29). Using the same trip generation factor as for the 2222 23rd St. project (Table 7, EIR page 47), the Wisconsin St. project would generate approximately 310 trips in 24 hours compared with 740 for the project. assumes that there will be no commercial space in the Wisconsin St. project; commercial uses account for approximately half of the 2222 23rd. St. project trips.) Assuming 12% of these trips to take place during the afternoon rush hour, about 40 peak hour trips would occur. If the time distribution of trips were like that of the 2222 23rd St. project, about 30 trips would occur during the afternoon peak hour in the area. If 60% of these trips were on 23rd St., about 20 trips would be added. with the 35 trips from the 2222 23rd St. project, this would give a cumulative increase of about 55 vehicles, an increase of 11%. This would probably change the conditions at the 23rd and Kansas Sts. intersection from Level of Service A to B during rush hour. According to the Department of Public Works definition, "Level of Service B describes a condition where the approach to an intersection is occasionally fully utilized and some delays may be encountered. Many drivers begin to feel somewhat restricted within groups of vehicles. The traffic operation can generally be described as very good." See EIR page 122 for other Level of Service definitions, for comparison.

"The Wisconsin St. project would generate a similar number of transit trips as the 2222 23rd St. project, or a total of about 10 persons per bus. The

approximately 11 empty seats remaining on these buses after allowing for patrons from the 2222 23rd St. project on these 48-seat buses would accomodate the additional passengers."

The last ¶ on page 30 has been replaced by the following text:

"There are 103 on-street parking spaces on the streets bounding the project. There are an additional 277 spaces within one block of the site on streets radiating from the project corners. During counts by Bendix Environmental Research, Inc. on 12 May 1981, 66 or 64% of the perimeter spaces were filled and 153 or 55% of the spaces on radiating streets were filled. Few cars were observed parking or leaving during the 3-6 pm period."

Energy

COMMENTS

"The Energy Section is weak in that it proposed only "possibilities" of using renewable energy resource systems such as solar and wind power. At the very least, solar hot water systems should be used on all new development throughout the San Francisco sunbelt, and wind-powered projects should be installed wherever feasible. Maximum insulation and double glazing should also be mandatory in this project." (Jim Firth)

"Potrero Hill is an excellent area for using both solar and wind energy. The analysis of wind energy generation in the Draft E.I.R. seemed understated. I believe both solar and wind could be harnessed to provide signifficant portions of the energy needs of the development." (Patricia Sands)

RESPONSES

At the cost level cited on EIR page 75, wind generators to supply the electrical needs of the project would cost about \$800,000, plus the cost of increasing the structural strength of the buildings to enable them to withstand vibration from the windmills. This would add \$7000 or more to the cost of each unit. Project sponsor has rejected this measure because of its cost, the time necessary to obtain enough wind data for the site to determine that average wind speeds are high enough to make wind generation possible, and possible City and neighborhood concern about the visual and noise impacts of a group of wind generators and their potential interference with TV reception. The Milbrae Planning Commission recently turned down a conditional use permit for a 60-ft., ground-based, windmill because of neighborhood concern about visual, noise and safety impacts (Millbrae Sun, 17 June 1981).

The following information has been added as the first sentence under Mitigation on EIR page 94: At least 50% of the energy required to heat the swimming pool would be derived from passive or active solar heating." In the next sentence "domestic" has been added before "hot water heating." On the same page, a new item 7 has been added: "Reuse of swimming pool water to decrease both water consumption and energy use associated with water use."

As indicated on EIR page 74, the cost of solar collectors to supply 60% of the hot water for the project would cost approximately \$120,000, about \$1000 per unit. The California Energy Commission estimates the cost of solar hot water for a home in Fresno at about \$2,500 (Overview of the Committee Proposed Residential Building Standards, April 1981, page 6). Assuming similar costs in San Francisco, the EIR estimate of \$1000/unit appears low.

The project would probably have to be redesigned to provide the 5,000 - 8,000 square feet of roof needed for collectors in the proper orientation. Project sponsor has rejected this mitigation measure on the grounds of design and delay-associated costs. Measures to facilitate future installation of solar collectors would probably cost 10% or less of the cost of complete installation of the collectors. The City Planning Commission could require such a mitigation measure as a permit condition. See mitigation measures 3 to 6, EIR page 94.

As indicated on EIR page 93, double glazing would be used on the western side of the project. According to project sponsor, the rest of the windows would probably not be double-glazed because of the cost (telephone conversation, Joseph Skiffer, 13 May 1981). The extent of use of double-glazed windows is under consideration and would be decided after issuance of a conditional use authorization and further consultation with a noise engineer. Residential portions of the buildings would be insulated in accordance with the requirements of the California Administrative Code, Title 24, Part 6, Article 1 Energy Conservation Standards for New Residential Buildings, adopted 30 January 1980. The commercial space would comply with Article 2, as required by § T20-1401(4)(b) on Mixed Occupancy. The Title 24 regulations allow the architect some flexibility in design measures used to meet energy performance standards, rather than requiring the use of specific design measures.

If the April 1981 California Energy Commission's "Committee Proposed Building Standards" should be adopted as proposed and become effective prior to issuance of a building permit for the project, the Energy Budget for Zone 3 (which includes San Francisco) would require a reduction of the estimated energy consumption (EIR page 72, gives a rough estimate, not based on a specific design) from 120,000 kBTU/unit/year to 30,000 kBTU/unit/yr (calculated from table on p. 22 of the proposed standards). This could be achieved by the use of various combinations of ceiling insulation, window treatment, etc. (Table 2c, page 26 of the proposed standards).

5. Density and Bulk

COMMENTS

"We also question the location of such dense residential use adjacent to an air pollution ridden freeway." (Jim Firth)

"One of the concerns that I have is the density. The amount of people or units that is being proposed for this project, seems to be well out of proportion for anything that is in the area, either public or private,

even Victoria Mews, which is an unusual project in itself." (Christopher Sabre)

"My neighbors and I are concerned about the proposed project at 2222-23rd Street because it would be completely out of character with the rest of the neighborhood. The sponsors of the project have not been realistic about the effect of this massive development...on the quality of life in the neighborhood." (Christopher Sabre)

"I am not opposed to development of this site. However, I am opposed to a zoning change at the site." (Christopher Sabre)

"I support Alternative C, mixed low/moderate/market rate units within the existing RH-2 zoning on the site as more suitable to the existing density and bulk of housing in the neighborhood and the capacity of the streets." (Patricia Sands)

RESPONSES

The Victoria Mews project includes about 900 sq. ft. of site per unit and the proposed project would have about 600 sq. ft. of site per unit. The same calculation without the 35 units in the existing building at Kansas and 24th Sts., which occupies 8,600 sq. ft., gives about 740 sq. ft. of site per unit. Assuming all duplexes, as an average, the blocks surrounding the project site are about 1100 sq. ft. per unit.

Alternative C would include 132 units. RH-2 zoning could permit 53 units with conditional use authorization. Restriction of the project to RH-2 zoning would decrease the number of dwelling units by 60% below both Alternative C and the proposed project, and would increase the subsidy necessary per unit required to sell units at below-market-rate prices.

Comments supporting or opposing the alternatives for development of this site may be addressed to the Planning Commission at the time of the hearing on the conditional use permit for the proposed project (2 July 1981).

Zoning and the Neighborhood Plan

COMMENTS

"1. Zoning - We oppose the project as being in violation of the <u>Residential Zoning Study."</u> (Jim Firth)

"It negates the guidelines stated by the Potrero Hill neighbors plan." (Ron Dicks)

"The proposal negates the <u>Potrero Hill Neighborhood Plan</u> which was adopted by the Planning Commission to assess housing needs in the Potrero Hill areaThe Potrero Hill Neighborhood Plan clearly calls for mixed-income housing on 2222 23rd Street." (Jim Queen)

"And, at the bottom [page 42], there is a reference to 'theme tree' -- and items - go back to check the neighborhood plans and see if we can define

that clearer, too." (Commissioner Rosenblatt)

RESPONSES

The Residential Zoning Study was implemented by the City through changes in provisions of the Planning Code. Projects, such as zoning changes and conditional use permits, which are permitted by procedures outlined in the City Planning Code, are not in violation of the policies of the Residential Zoning Study.

As indicated on EIR page 42, the project would be in conformity with some policies of the Potrero Hill Neighborhood Improvement Plan. This Plan states that "Effort should be made to ensure that all major housing developments are economically integrated in order to stabilize and enhance the mixed-income character of the community." (page 13). The lack of low income units in the proposed project would not comply with the intent of this statement. The efforts made to obtain subsidy funding to permit incorporation of low income units do comply with the statement (See pp. 30 to 33 of this document). A family earning about \$19,000 a year, the top of the HUD low-income category, could afford to buy housing at a maximum price of about \$58,000. It is questionable whether there is any housing for sale in San Francisco in this price range.

Map 10, page 49 of the Neighborhood Improvement Plan, "Proposed Land Use," shows the project block as Low Density Family Housing. The project would not conform to this proposed land use. No specific guidelines for development on this site, comparable to those given for the Wisconsin St. site, are included in the Plan. As indicated on EIR pages 41-42, the project is in compliance with policies of the San Francisco Comprehensive Plan such as conversion of underused non-residential land to residential use.

Page 25 of the Potrero Hill Neighborhood Plan states "Special theme trees would serve to announce the neighborhood entrances and help create a sense of community identity." Map 6, page 26, shows 23rd St. as a Neighborhood Entrance where such trees should be used. Theme trees are trees of a specific type selected to be used in various plantings to give identity and continuity to an area. As indicated on EIR page 82, "One street tree would be planted for each 20 feet of street frontage (over 60 trees), as required by the Planning Code." The Planning Department would be consulted as to the nature of the trees to be planted.

7. Economics and Employment

(including housing subsidy)

COMMENTS

"We are in the need of houses that we can afford to pay for." (Lee Brown) "Any time a government of this nation...can afford to spend billions and trillions of dollars, and the next few years it will move into trillions of dollars, setting up a defense force, and people have nowhere to stay. I think its a shame." (Lee Brown)

"We should not build any more condominium homes for...people that are able to pay \$90,000 for a place to live in, and \$100,000...when [other] people do not have a chicken coop to live in." (Lee Brown)

"There is an implication in the way this [Table 1, EIR page 16] is phrased of a decision having been made that...subsidies are not available. In that respect, I would hope that by the time we come to the permit hearing, ...we could have some very extensive discussions by the project sponsor and the Department about the research done as to whether subsidies were available." (Commissioner Rosenblatt)

"We urge the project sponsor and the appropriate city agencies to explore all sources of funding to develop low-moderate-market-rate units within the existing zone." (Jim Firth)

"We STRONGLY URGE you to support Alternative C: Mixed Housing Type in RH-2 zone, and join us in rejecting the proposed project which does not meet the housing needs of our community." (Jim Firth)

"The City's 'Housing Impact Fee' may provide a reasonable opportunity to implement this alternative, and provide a model for future affordable housing within existing neighborhood zoning districts." (Jim Firth)

"Perhaps the 10% housing impact fee now being levied on highrise developers would be a source for...subsidies." (Patricia Sands)

"I...urge all parties to use every means available to them to find funds for low and moderate subsidies." (Patricia Sands)

"On page 105, fourth paragraph, 'Direct sales income,' reorganize that sentence. I don't understand what the subject and the predicate are referring to." (Commissioner Rosenblatt)

"On page 120, 'Proposed Project Cost,' could we have a date in terms of when those estimates were made. In other sections of the document, selling prices, I believe, and others are indicated in terms of March 1981 prices. Could we have that date put on these, and if it isn't comparable, then revise these figures so they are comparable for the same date." (Commissioner Rosenblatt)

"The EIR failed to specify that the nearest RM-2 zoned site is public housing; no analysis is made on the socio-economic impacts of locating this project in proximity to public housing." (Jim Firth)

"There is a tremendous gentrification influence of the scheme." (Jim Queen)

"Another dilemma this project suggests is that as soon as the go-ahead is given, there may be a substantial increase in the speculation that has frequented the announcement of other such major developments throughout San Francisco neighborhoods....A project of this size is bound to have multiplier effects on the area-older buildings of all sizes will undergo change of ownership, renovation and subsequent displacement and higher

housing costs. Gentrification of the neighborhood will quicken, the racial-ethnic mix that presently exists will be shattered as only two and three income households and professional real estate practitioners will be able to afford the costs. Condo conversions will begin in earnest. (It should be the City's desire and will to discourage such displacement and homogenization of our neighborhoods.)" (James Faye)

"My major concern with this project, and numerous people in the neighborhood have expressed similar feelings, is that the purchase prices for these units will be far in excess of what most current Potrero Hill tenants could afford. As the proposed prices on page 16 of the Draft EIR stand now, they seem almost reasonable for today's crazed housing market (although it totally prohibits low-income tenants from participating and would just allow a two-income family a chance at getting in, if financing could be arranged.)" (James Faye)

"The big fear, however, stems from the improbability that these 1981 dollar prices will not increase dramatically as the construction nears completion. I fear the thought of studio units on Potrero Hill selling initially for \$150,000 and 2 or 3 bedroom units in excess of \$250,000. There obviously is no guarantee that the prices will remain in the developers' proposed bracket--perhaps this is merely a reality for the potential purchasers to deal with, but I cannot imagine how this will open up viable homeownership opportunities for low and moderate income folks, contrary to stated City policy." (James Faye)

"Will there be any effort by the developers to meet the minimum 10% setaside for low and moderate income purchase? There is no mention of this in the EIR except that subsidies would be necessary to accomplish this. The developers, having rejected Alternative C as economically unfeasible (page 105), should at least try to secure this inadequate 10% set-aside (13 units). It appears that they have refused to do this." (James Faye)

"In the reading of the Socioeconomic section of the Environmental Impact Report, I don't see any statements in terms of the concerns that were expressed by some of the speakers here today, as to what is going to happen to the existing neighborhood, what kind of socioeconomic tensions will be created in there." (Commissioner Salazar)

"On page 102, in the second paragraph, that is not entirely clear to me why the socioeconomic impact would be the least of any alternative. They can never address that. The word 'some' needs to be specified. How many? What character? How do you go from that discussion to a discussion of the socioeconomic issues?" (Commissioner Rosenblatt)

"If you are going to discuss socioeconomic issues, you've got to do it thoroughly, or you shouldn't do it at all." (Commissioner Rosenblatt)

"ABAG's local elected officials promote a more complementary distribution of jobs and housing in the region to relieve transportation and commute congestion, alleviate impacts on air quality, and help reduce upward pressures on housing prices in communities near job centers. They urge that cities with job growth in excess of past housing growth accept

responsibility for providing more housing at price ranges and levels affordable to workers coming to these new jobs." (Charles Q. Forster)

"To this end, they have agreed upon the following policies which are related to the 2222 23rd Street proposal:

Increase housing production to match anticipated employment growth, new household formation, and the capacity of local communities to provide needed public facilities and services."

"Promote higher density development, increases in the supply of land available for residential use, and use of development incentives to increase the supply of housing at locations well served by existing or planned services and accessible to job centers.

"According to ABAG projections, San Francisco had 306,854 occupied dwelling units in 1980, and 542,644 total jobs. Such a severe imbalance in the ratio of jobs to housing has meant rapidly increasing housing costs, exceedingly low vacancy rates, and the displacement of low and moderate income households who can no longer afford to live in the city... (Charles 0. Forester)

"The 2222 23rd Street project is located on a former paint manufacturing site, and represents a higher level of housing density than the immediate surrounding area. It is an infill development in a job-rich city, and thus is supportive of the regional policies quoted above." (Charles Q. Forester)

"However, the need in San Francisco for housing affordable to low and moderate income households is especially acute....According to the DEIR, the developer states that a mixed income project of 132 units, evenly divided between low, moderate and market rate units would be economically unfeasible. [ABAG] Staff notes that according to State law (AB 1151), when a developer includes at least 25% low and/or moderate income units, the jurisdiction must grant a density bonus of 25%, or provide at least two other bonus incentives. Staff strongly urges that the final EIR explore the feasibility of the City granting density bonus (e.g., 25%), in exchange for the provision of a like percentage of units available to low and/or moderate income households. The Final EIR should also explore other ways in which the City can help make inclusion of low and moderate income housing economically feasible--e.g., priority processing, waiver of some development fees, etc." (Charles Q. Forester)

"I don't know if the following suggestion is legal, but consider this. To assure affordable housing for Potrero Hill tenants, and to give them a ...chance at purchasing one of these condos, require that a top-dollar price be established which cannot be superseded at some later date; give Potrero Hill residents the first right-of-refusal to purchase these units before opening it up to others (and establish a date of determination of residency or length of time on Potrero Hill to prevent carpetbaggers); restrict purchasers of the units to owner-occupants without other property holding; and...prohibit sheet-term sales for profit by setting up a limited-equity condominium agreement." (James Faye)

The following comments were received by the Department of City Planning from the Department of Housing and Urban Development on 20 May 1981, after the close of the comment period on 14 May 1981; they are responded to as a courtesy to HUD.

"Alternatives to the Proposed Project-Economic Feasibility: Provision of Low and Moderate Income Housing. [EIR pp. 104-107]

"The project sponsor has rejected this alternative as economically infeasible based on an analysis of the total project income as determined from a postulated unit mix and HUD Fair Market Rents (FMR's). (Lawrence Goldberger, HUD)

"The postulated unit mix supports the determination that this project is infeasible. However, a thorough economic analysis would examine other possible mixes, including a unit mix that would include only 10% of the units being subsidized as required by Section 1341(c) of the San Francisco Subdivision Code. (Lawrence Goldberger, HUD)

"The FMR's supporting this analysis do not consider the possibility that this office [of HUD] can, if warranted, approve up to 110% of the FMR's as stated in Table 12; or, if determined to be warranted by HUD's Central Office, approve up to 120% of the FMR's. (Lawrence Goldberger, HUD)

"The presented analysis does not consider all Federal Tax benefits accruing as income to the sponsor. (Lawrence Goldberger, HUD)

"This office [of HUD] regards the subject Draft Environmental Impact Report to be deficient in that it does not adequately describe the efforts required of the sponsor by the San Francisco Planning Commission to meet Section 1341(c) of the San Francisco Subdivision Code. Efforts to be made by the sponsor to obtain subsidies and the criteria that will be used to determine if a waiver to the code is appropriate should be adequately documented." (Lawrence Goldberger, HUD)

"These [HUD] comments indicate that Alternative C may have understated the total project income, and its economic feasibility. A more thorough analysis may find it economically feasible to include some number of subsidized rental units into this project. This would assist the City of San Francisco in meeting its goals of providing low and moderate income housing as defined by Section 1341(c) of the San Francisco Subdivision Code." (Lawrence Goldberger, HUD)

RESPONSES

The title of section D., EIR page 43, has been changed from "Socioeconomics" to "Economic and Employment Impacts" to more accurately reflect the content of the section. Discussion of economic and socioeconomic impacts is not legally required in an EIR pursuant to the California law, unlike the federal law (the National Environmental Policy Act). (The State Legislature has considered such provisions five times and rejected them because of the subjective and speculative nature of socioeconomic predictions for areas

too small to be subject to statistically valid analysis, and because of project cost increases produced by the time required to perform detailed socioeconomic analyses where these analyses are statistically valid.) Inclusion of socioeconomic information is at the discretion of individual agencies implementing CEQA. The information presented in this document has been limited to items which can be derived from existing data, with a minimum of assumptions.

There are many possible alternatives for the proposed project which would have different economic characteristics. CEQA does not require a discussion of all alternatives. The selection of alternatives should indicate the range of alternatives and the corresponding environmental consequences. One new alternative has been added to the EIR, see pp. 28 and 29 of this document.

An EIR is a neutral document which does not support or oppose any alternative. The information presented in the EIR is to be used by the Planning Commissioners and any other decision-makers in approving or disapproving a proposal. Certification of an EIR does not constitute project approval, but rather a determination that the information in the EIR is accurate and complete. By law, EIR information must be considered in the approval process.

Note that the project's 29 1-bedroom units are proposed to be sold for an average of \$82,000 (Table 13, EIR page 106); therefore, at least 14 (11% of the total units in the project) of these units would be below the \$85,000 moderate income limit. If housing costs and HUD standards were to increase at the same rate until completion of the proposed project, then 11% of the units would be moderate income units.

No housing impact fee is now being levied on downtown highrise developers. Such action has been discussed by City officials and concerned citizens; implementation requires action by the Board of Supervisors.

Some housing money is expected to be available in mid-1982 from fees paid pursuant to San Francisco's Condominium Conversion Ordinance: about \$170,000 by July 1982, and \$230,000 by May-1983 (telephone conversation, Eva Levine, Department of City Planning, 8 June 1981).

The HUD Fair Market Rents cited in TABLE 12, EIR page 104 include "utilities (except telephone), ranges and refrigerators, parking, and all maintenance, management and other essential housing services" (24 CFR Part 880, § 880.203), so that the EIR analysis of sponsor income is conservative and this income would actually be about 10% lower than stated. HUD Fair Market Rents can be exceeded by up to 10% with approval of the HUD field office manager or by up to 20% with approval of the HUD Assistant Secretary for Housing (24 CFR 880.204). The law places limitations on such exceptions, such as cost limits. The cost limits are \$23,700 for a dwelling unit without a bedroom, \$27,100 for a 1-bedroom unit, \$33,000 for a 2-bedroom unit, and \$42,000 for a 3-bedroom unit. The 1 June 1981 Federal Register lists increases in these limits effective 13 July 1981 (new range for high cost areas \$38,000 to \$55,000); it is not known what the limits would be by the time the proposed project would be built. In the past, these limits could

be increased by the Assistant Secretary for Housing, at the request of the field office, by up to 50%. Effective 13 July 1981 the Secretary is limited to an increase of \$7500. Project plans are not far enough developed to permit a determination of whether the units in the Kansas and 24th St. building would meet this criterion.

Page 105, ¶ 4 has been rewritten as follows: "Income from the sale of the 88 condominium units would be about one-half the income of the proposed project, and would cover about 60% of development costs." The numbers on EIR page 120 are March 1981 estimates, as are other dollar figures in the EIR. On page 120, "(March 1981 Dollars)" has been added under "Proposed Project Costs."

Information about the presence of public housing on the néarest RM-2 site was not included in the DEIR, in the interest of brevity. It is not clear that public housing three blocks away would have any impact on the project or that the project would have any effect on the public housing.

Market rate housing on this site, as on most sites in non-upper-income neighborhoods in the Bay Area, would cause gentrification because inflation of land, construction and financing costs has made it difficult if not impossible for low- and moderate-income families to qualify for a mortgage. Increased costs of suburban living, such as increased commute costs, also create urban gentrification pressures.

Paragraph 2, page 102, has been rewritten: "The economic impacts of this alternative would be less than those of Alternative A, or the proposed project."

A new alternative has been added to the EIR following page 106, beginning on new EIR page 106a:

"Alternative D. AB 1151 Bonus.

"AB 1151, enacted by the California Legislature in 1979, provides that any multi-unit housing project over 5 units may be granted a 25% density bonus, automatically, if 25% low or moderate cost housing units are included, regardless of local zoning laws. In this Alternative the 25% bonus is added to the proposed 132 units, for a total of 165 units. Unit mixes have been set at the same proportional mix of types as the proposed project.

"Unit numbers, prices and income are given in the table below. Project costs and income would be approximately equal so that it seems unlikely that sponsor would make any profit on this alternative. Project sponsor has rejected Alternative D for this reason. Demolition impacts of this Alternative would be the same as for the proposed alternative. Impacts that are a function of the number of units (e.g. traffic) would be about 25% greater than those of the proposed project.

"The design of this alternative could be similar to that of the high-density Alternative C, or similar to that of the proposed project but with a smaller central open space. In either case, the need for a new design would increase costs and delay the project. Delay would increase financing

TARLE 17	ALTEDNATIVE D. 1	PROPOSED PROJECT +	2E% DOMIC
IADLE 1/ .	ALIEKNATIVE D-1.	- PKUPUSEU PKUJELI +	25% BUNUS

A. UNIT TYPES AND PRICES

	No. of Units	Approximate Prices
Unit Types	Moderate Market	Moderate Market
Studios One-Bedroom Two-Bedroom Three-Bedroom Subtotals	3 13 7 29 20 81 3 9 33 132	\$85,000 ¹ \$106,000 82,000 82,000 ² 85,000 133,000 85,000 192,000
Total Units	165	

B. COMPARISON OF COSTS AND INCOME TO PROPOSED PROJECT

	Alternative D-1		Proposed Project			
	Moderate	Market	All Market ³	90% Market/ 10% Moderate		
Studios One-Bedroom Two-Bedroom Three-Bedroom	\$ 255,000 574,000 1,700,000 255,000	\$ 1,378,000 2,378,000 10,773,000 1,728,000	\$ 1,378,000 2,378,000 10,800,000 1,728,000	\$ 1,357,000 (12/1) ⁴ 2,378,000 (26/3) 10,400,000 (73/8) 1,621,000 (8/1)		
Subtotals	\$2,784,000	\$16,257,000	\$16,284,000	\$15,756,000		
Rounded Totals \$19		00,000	\$16,300,000	\$15,800,000		
Construction Cost 19,		00,000	14,700,000	14,700,000		
Income/Cost Rate	io 1.	1.05		1.07 ⁵		

- The limit of affordable housing cost for a moderate income household, see EIR page 105.
- Note that the average price of these units is below the present moderate limit; therefore, as now planned the proposed project includes at least 14, or 11% moderate units.
- Note that the proposed all-market-rate development actually includes at least 14 moderate, lne-bedroom units. In the 90/10 alternative in the next column 10% of each type of unit is in the moderate class.
- ⁴ No. of Market Units/No. of Subsidized Units.
- Note that these are approximate calculations with a probable error of about 10%.

and other inflation-related costs. These added costs could have been avoided if a decision to select this alternative had been made at the inception of the project; however, the unfavorable economics of Alternative D eliminated it from sponsor's consideration at the outset."

The City cannot afford to waive development fees as these fees pay for the staff to process permits. Insofar as scheduling limitations permit, housing projects are given priority by the Department of City Planning.

Despite its sympathy with public concern that national budget priorities should provide for basic human needs such as affordable housing, the City of San Francisco alone cannot solve national economic problems, such as inflation, which affect the cost of housing. Mayor Feinstein has stated: "Through Congress and the United States Conference of Mayors, we'll continue to crusade for useful housing programs." ("A Six-Point Program for Expanding Housing in San Francisco," 9 April 1981) And SPUR has stated: "Financing rent subsidies, and building housing that people can afford to buy are national problems that are far beyond any city's ability to resolve. The Mayor recognizes this in her policy statement." (The Mayor's Housing Program: A Cautious Approach to a Large and Complex Problem," SPUR Report No. 174, June 1981, page 5) The City is examining all potential avenues for funding of below-market-rate housing.

It would be constitutionally questionable for the City to impose a condition on approval for the project requiring sponsor to give first right of refusal to Potrero Hill residents. It would probably be necessary to make a finding that the housing deficiency in this part of the city is the greatest in the City and that crowding in existing units is the worst in the City, in order to justify such an action, and it is improbable that this could be proved. Lacking such evidence, the City would be vulnerable to legal challenge of the action.

Action to prohibit sales to persons owning other land would be subject to approval by the State Real Estate Commissioner. It is not clear what is meant by a "limited-equity condominium agreement". Short-term sales for profit could be limited if the sponsor or the condominium association required units to be owner-occupied. Such action could affect the sale-ability of the units. Project condominiums not occupied by owners would be rented; this would contribute to satisfying the demand for rental units.

Sources of housing funds and project sponsor's efforts to obtain low and moderate income housing subsidy funds for the proposed project are described below.

Long Term Financing Sources

l. <u>California Housing Finance Agency</u>. This agency sells tax-exempt bonds to finance improvement or purchase of single-family homes. Project sponsor contacted this agency at the beginning of 1981, and was told that it had no subsidy money available for construction of multi-unit projects such as the subject project (Joseph Skiffer, Foxcroft Associates, telephone conversation, 1 June 1981). CHFA is also involved in the allocation of federal funds for the Section 8 program; see point 9 below.

- California SB 99. SB 99 is a state law which permits public entities, such as the Redevelopment Agency and the City of San Francisco, to issue tax exempt mortgage-revenue bonds to finance housing. The program was established to encourage building of market rate housing in depressed areas. The Redevelopment Agency has used this mechanism both within and outside of redevelopment areas: the Western Addition, Hunters Point, Wharf Plaza I and II, etc. Since the passage of the federal Ullman Act, effective 1 January 1981, instituting restrictions on financing mechanisms and limitation to low- and moderate-income housing, little use has been made of this financing option because of the difficulty of covering the costs of issuance of the bonds. (Philip Westergaard, San Francisco Redevelopment Agency, telephone conversation, 11 June 1981) Further actions by the State Legislature and the Internal Revenue Service (IRS) required by the Ullman Act are pending; it is unlikely that any new SB 99 bonds will be issued until the pending actions are completed. Project sponsor contacted the Redevelopment Agency at the beginning of 1980 regarding SB 99 funding and was told that SB 99 funding would not be available for subject project (Joseph Skiffer, Foxcroft Associates, telephone conversation, 1 June 1981).
- 3. Marks-Foran Residential Rehabilitation Act of 1973. This state law permits the issuance of tax-exempt bonds by public agencies, such as the Redevelopment Agency, the Housing Authority, and the City and County of San Francisco, to finance residential rehabilitation. Low-interest loans for housing rehabilitation in designated areas can be financed this way. The Redevelopment Agency has used this mechanism for residential rehabilitation in the Western Addition. San Francisco Rehabilitation Assistance Programs (RAP) have been financed this way since 1974. The law provides for use of this mechanism for new construction; however, neither the Redevelopment Agency nor the City has ever used the mechanism for this purpose. The federal Ullman Act imposes limitations on the issuance of tax-exempt bonds, which have affected use of the Marks-Foran law. (Darby Nelson, Redevelopment Agency, telephone conversation, 10 June 1981)
- 4. Mayor's Tax-exempt Mortgage Program. According to Mayor Feinstein: "We are completing plans to sell a \$60-million tax-exempt mortgage revenue bond issue by late summer or early fall [of 1981]. This program will help 1000 moderate- and middle-income families become homeowners in the first year alone." (Mayor Dianne Feinstein, "A Six-Point Program for Expanding Housing in San Francisco," 9 April 1981)

This program is planned to combine the proceeds of sales of tax-exempt bonds with private and foundation investment to create a fund to be used to provide reduced mortgage interest rates. The Office of Community Development (OCD) has been designated to coordinate all of the City's tax-exempt financing efforts for housing development. Project sponsor has spoken to William Witte, the OCD coordinator, in June 1981, and was told that no subsidy funds were available for the proposed project.

Implementation of this revenue bond program is awaiting resolution of the pending legislative and IRS actions indicated in No. 2, above.

5. <u>HUD Home Mortgage Insurance</u>. Under § 203 of the National Housing Act of 1934 (Public Law 73-479), HUD may provide federal mortgage insurance to

facilitate home-ownership and the construction and financing of housing. There are no provisions in this law targeting low- and moderate- income housing; any person able to meet the cash investment, the mortgage payments, and the credit requirements is eligible. (HUD, "Departmental Programs," dated 1980, issued summer 1981, p. 10; hereafter referred to as HUD Departmental Programs.) As this program is designed to encourage homeownership in general, rather than specifically low- and moderate-income housing, it is not relevant to the inclusion of below market-rate housing in the proposed project. Persons in low and moderate income categories generally cannot meet credit requirements for housing in the San Francisco price range.

- 6. <u>HUD-subsidized Condominium Ownership</u>. Federal mortgage insurance to finance ownership of individual units in multi-unit projects may be provided through § 234 of the National Housing Act of 1934 ("As added by Housing Act of 1961 (P. L. 87-70), and as amended." HUD Departmental Programs, p. 15.) This program can apply to the profit-motivated or non-profit project sponsor of an entire project or to "credit-worthy" persons buying individual units. (HUD Departmental Programs, p. 15) Persons in low- and moderate-income categories are generally not considered credit worthy for housing at San Francisco cost levels.
- 7. HUD Low- and Moderate-income Families Homeownership Assistance. Through § 101 of the Housing and Urban Development Act of 1968 (Public Law 90-448; also known as "Section 235," because cited law amended § 235 of the National Housing Act of 1934), HUD provides mortgage insurance and interest subsidy for low- and moderate-income home buyers. The homeowner must contribute 20 % of adjusted income to monthly mortgage payments and must make a down payment of 3 % of the cost of acquisition. The mortgage limit is \$32,000 (\$38,000 for homes for 5 or more persons), and in high cost areas such as San Francisco, \$38,000 (\$44,000 for homes for 5 or more persons). On 1 June 1981, the Federal Register listed increased limits, effective 13 July 1981 (new range \$38,000 to \$55,000); it is not known what the limits will be at the time the proposed project would be completed. The income limit for initial eligibility is 95% (95% of \$23,400 = \$22,200) of the area median income for a family of 4 and the sale price may not exceed 125 % of the mortgage limit. Under this program the maximum sales price permitted would be \$55,000. This is too low for any housing in San Francisco because land plus construction costs are greater than \$55,000, and so would not be of any assistance for the proposed project. Another, similar program, under § 221 of the Housing Act of 1954 (Public Law 83-560), applies only to 1 - 4 unit housing. (HUD Departmental Programs p. 11-12) Neither of these programs would be applicable to subject project because they are limited to a maximum of 4-unit dwellings and/or because of the cost limitations.
- 8. Section 222(d)(4) Low- and Moderate-income, Multi-family Rental Housing. Under this section of the National Housing Act of 1934 (added by the Housing Act of 1954), HUD provides mortgage insurance for up to 90% of the construction or substantial rehabilitation costs of rental or cooperative multi-family housing for low- and moderate-income households. "Below-market interest rates and rent supplements are no longer available for new projects for these programs." (HUD Departmental Programs, p. 21) Mortgage

insurance has relatively little effect on financing construction because of current high mortgage rates. This program and the Section 8 program described in the next section may qualify for special accelerated depreciation tax benefits.

Other Housing Subsidy Funds

9. <u>Section 8.</u> This program, created by the Housing and Community Development Act of 1974 (24 CFR Part 880), provides money for subsidy of rents in multi-unit buildings. The subsidy makes up the difference between what a lower income household can afford and the fair market rent for "adequate" housing units. HUD, CHFA, and the San Francisco Office of Community Development are involved in disbursement of monies in this program. Section 8 agreements should be signed before construction begins.

Section 8 money could be used in the proposed project only if the rehabilitated units in the building to be retained at Kansas and 24th Sts. were all sold to a single owner who would, in turn, be a member of the condominium owners' association. Location of all lower income families in a single building could affect the nature of their relationship with the owner families on the block.

All of San Francisco's 1980-1981 Section 8 money (for 250 units) is committed to the North of Market Neighborhood Study Area (NSA). Other funds were expected to be available; however, the Office of Environmental Review has received a letter dated 15 June 1981 from Lawrence Goldberger, Director, Housing Division, HUD, San Francisco Area Office, stating that: "Since our letter of May 18, 1981 [commenting on this EIR], there has been a Congressionally approved recission of Section 8 funds. We anticipate no further availability of these funds for rental projects in San Francisco this fiscal year, except for those funds allocated for the North of Market NSA."

Approximately 200 additional units were expected to be available in fiscal 1982 (beginning in October 1981). (Steve Grossman, HUD, Multi-family Housing Representative, telephone conversation, 11 June 1981) The above cited letter further states: At this point we do not know the extent to which these Section 8 rental subsidies will be available in the next fiscal year, beginning October 1, 1981." (letter dated 15 June, 1981)

- 10. <u>San Francisco Office of Community Development.</u> Project sponsor has spoken with staff of this agency repeatedly during 1981, and has been told they do not expect to have any housing subsidy funds until mid-1983, after expected completion of construction of this project. (Joseph Skiffer, Foxcroft Associates, telephone conversation, 1 June 1981)
- 11. Community Development Block Grant Program. The block grant program established by the Housing and Community Development Act of 1974 is implemented in San Francisco by the Office of Community Development with the assistance of the Department of City Planning and other City agencies on a Technical Policy Committee. The majority of funds in this program go to redevelopment projects administered by the Redevelopment Agency, such as the Western Addition A-2 Redevelopment Project, the Hunters Point Neighbor-

hood Development Project and the India Basin Industrial Park redevelopment project. Some funds are available for site acquisition; for example, the 1978 program allocated \$500,000 for acquisition of a housing site to serve the Chinatown area (FEIR, 1978 Community Development Program and Housing Assistance Plan for the Community Development Block Grant, EE 77.250, p. 15). These funds are available only to non-profit organizations; therefore, therefore, subject project would not qualify.

- 12. <u>Downtown High-Rise Housing Impact Funds</u>. As previously indicated above (p. 27, ¶ 4), no such fee is being levied as of June 1981. No legislation to implement this concept has been introduced before the Board of Supervisors (David Cincotta, sponsor's lawyer, memorandum, 19 June 1981).
- 13. Condominium Conversion Fees. As previously indicated on page 27 of this document, funds from this program are not expected to be available until July 1982, after the proposed project is expected to be under construction.

The San Francisco Subdivision Code, §1341(a) provides that "In all subdivisions involving fifty (50) or more lots or units, except for condominium or cooperative conversion subdivisions, the subdivider shall make available ten percent (10%) of the units for low and moderate income occupancy provided that the City Planning Commission finds that governmental subsidies for such occupancy are available to the subdivider." The Planning Commission has not established formal criteria for determining whether governmental subsidies are available to the subdivider.

"The Mayor suggests that the present inclusionary zoning policy [in San Francisco], requiring that 10% of all housing developments of 50 or more units be allocated for low and moderate income residents, needs to be re-evaluated because the federal subsidies necessary are in danger of being abolished." ("The Mayor's Housing Program: A Cautious Approach to a Large and Complex Problem," SPUR Report No. 174, June 1981, page 1.)

8. Victoria Mews

COMMENTS

"Going to page 45, and the last paragraph of page 44, I recommend that you eliminate that whole section. I think it is terribly misleading." (Commissioner Rosenblatt)

At the bottom of 44 it indicates that, "The data suggests that housing prices on Potrero Hill are rising at a faster rate than in San Francisco as a whole. There is no evidence in this document about what rates are in San Francisco. More importantly -- well, then it goes on to say, Victoria Mews, relative to the rest of Potrero Hill...if you look at the last column, the [data] do not justify that, and...it is indicated in here, also on [pp] 43 and 44, but most importantly, to use one, two, three, four, five, six examples, and talk about housing price trends in this area...is ludicrous and misleading." (Commissioner Rosenblatt)

"I understand that you can't gather that kind of data, but you should not

ر-ن

put in misleading data as if it were saying something. That ought to go out altogether." (Commissioner Rosenblatt)

"The brief section on the socio-economic impact of the project suggested some interesting findings regarding the Victoria Mews influence on housing costs in the vicinity. However, the methodology was weak and prompted Commissioner Rosenblatt to ask for its' removal from the report. I would like to see a thorough analysis of the effects on Potrero Hill housing costs since the development of Victoria Mews. Such research would show what might happen if the proposed 2222 23rd Street project...becomes a reality. It would be a prudent action by the Department and well worth the time, no matter what its' findings. For that matter, a thorough examination of condominium ownership in San Francisco would be a wise move. I trust plans for such analysis are underway." (James Faye)

RESPONSES

The last ¶ of Page 44 and Table 6 on page 45, which discuss Victoria Mews, have been deleted.

The Department of City Planning has had an ongoing concern about condominium conversion in San Francisco. In 1974-5, the Department participated in expanding the San Francisco Subdivision Code to cover condominium conversions. In 1978-9, the Department drafted further amendments to this Code dealing with condominium conversions, which became effective 6 July 1979. In 1980, additional amendments were drafted and endorsed by the Planning Commission; they are now (18 June 1981) pending before the Board of Supervisors.

A number of other ordinances affecting condominium conversion are pending before the Board of Supervisors. Information about these ordinances can be obtained from the Clerk of the Board of Supervisors.

A limit of 1000 converted units per year was set by the 1979 amendments. (Ordinance 337-79, § 1396) The allotment for 1981 has been exhausted and the waiting list for additional permits has already exhausted the 1982 allotment. Because of this, new applications for condominium conversions are not being accepted by the Department of Public Works.

The following information materials on condominium conversion are available from the Department of City Planning: "Condominium Subdivision Actions of the San Francisco Department of City Planning Subsequent to Adoption of the Subdivision Code in May 1975, Prior to Adoption of Condominium Amendments in July 1979" (27 July 1979); "Condominium Subdivision Applications Received by Department of City Planning, July 1, 1979 - March 31, 1980" (10 April 1980); "Memorandum to Persons with an Interest in Condominium Conversions from Rai Y. Okamoto, Director of Planning Re: Proposed Amendments to the San Francisco Subdivision Code" (4 August 1980); "Analysis of Condominium Conversion Subdivisions Received in 1980" (20 March 1981) and "Summary of the Subdivision Process as related to Department of City Planning" (15 May 1981). (Alec Bash, Department of City Planning, telephone conversation, 9 June 1981)

9. Mitigation Cost

COMMENT

"Mitigation Measures - the EIR outlines mitigation measures with no analysis of cost addressed or firm commitment to implementation. How much will the price of the units increase if all mitigation measures are instituted? We believe that all mitigation measures should be implemented in order to insure the health and safety of neighbors and future residents. We believe the mitigation measures should be instituted regardless of who the eventual developer might be." (Jim Firth)

RESPONSES

All the health and safety mitigation measures listed on EIR pages 88 - 92 would be implemented except for the bagging of dusty, non-asbestos materials. Paul Schwabacher of the San Francisco Health Department has indicated that there is not enough dust on the site to require such a measure (during site visit on 28 May 1981).

The cost of mitigation measures involving changes in the buildings cannot be estimated now because building design is not far enough along to permit such estimates. The City Planning Commission could require measures not agreed to as conditions of the conditional use permit, if it thought the measures were feasible and necessary.

10. Notification

COMMENT

"I would like there to be more adequate notification of my neighbors." (Christopher Sabre)

RESPONSE

"In regard to notice to the neighbors, I would like to note for the record that 30 days before this hearing we did post a sign at ten locations on and near the site indicating the availability of the Environmental Impact Report, and that this hearing would be held.

"The time for receipt of comments runs until May 14. There will be additional time for those who may not have known about it until the last few days, to make their comments, more thorough comments, known to the staff." (Robert Passmore, Zoning Administrator, at public hearing on DEIR)

The Public hearing was advertised in the San Francisco Progress on 27 March 1981.

11. Staff Initiated Text Changes

On page 1, ¶ 1, line 2, "-oriented" has been added after "neighborhood."

Page 4, \P 2, lines 4 and 5. "east" has been corrected to "west" and "west" has been corrected to "east." In \P 3, line 2, "-oriented" has been added after "neighborhood."

Page 18, ¶ 1, sentence 3, has been expanded to read: "With the exception of a grocery store, beneath 6 residential units, on the northeast corner of Kansas and 23rd Sts., a possible industrial use in a duplex on Kansas St. in the block north of the site (posted with warnings and requirements for special clothing), and the Freeway..."

Page 40: Information has been added to TABLE 4. ALLOWABLE HOUSING DENSITY BY ZONING DISTRICT. The revised table is on page 37 of this document.

The following sentence has been added at the end of \P 1, page 73: "This analysis does not include the possible use of natural gas for heating swimming pool water."

On page 77, a sentence has been added at the end of ¶ 2: "The swimming pool would use approximately 1500 - 2000 gpd, or an additional 10 - 13% of the other project water use." (calculation based on Metcalf & Eddy, "Wastewater Engineering," 2nd Ed., 1979, p. 17) At the end of the first sentence on EIR page 78, this text has been added: "Adding 2000 gpd for the swimming pool, the total water use of the project would be a maximum of 15,700 gpd." The percentage on line 3 has been changed to "0.07%."

On page 86, the following sentence has been added to the end of \P 4: "Project sponsor would consult the Planning Department before selecting street trees."

TABLE 4. ALLOWABLE HOUSING DENSIT	Y BY ZONING DISTR	ICT			
District	Required sq. ft. per unit ¹	Maximum number of units			
DU O Desidential Have District T					
RH-2, Residential, House District, Two- Family (present zoning)	15002	53			
RH-2, P.U.D ³	up to 1000 minus 1 unit	79			
RH-3, Residential, House District, Three- Family	10001	80			
RM-1, Residential Mixed District, Low Density	800	100			
RC-1, Residential-Commercial Combined District, Low Density	800	100			
RC-2, Residential-Commercial Combined District, Moderate Density	600	133			
RM-2, Residential Mixed District, Moderate Density (proposed zoning)	600	133			
RM-2, P.U.D. ³	up to 400 minus 1 unit	199			
RC-3, Residential-Commercial Combined District, Medium Density	400	200			
RM-3, Residential Mixed District, High Density	400	200			
RM-3, P.U.D. ³	up to 200 minus 1 unit	399			
1 There are 80,000 square feet in the proposed site.					
2 Development at this density requires conditional use permit.					
<pre>P.U.D. = Planned Unit Development, requiring conditional use permit.</pre>					

VIII. EIR AUTHORS AND CONSULTANTS: ORGANIZATIONS AND PERSONS CONSULTED

Author of Environmental Impact Report

San Francisco Department of City Planning 45 Hyde Street San Francisco, California 94102 (415) 552-1134

Assistant Environmental Review Officer: Barbara W. Sahm

Project Manager: Carol Roos

Author of Preliminary Draft EIR

Kreines & Kreines 58 Paseo Mirasol Tiburon, California 94920

Project Manager: Ted Kreines, AICP

With: Selina Bendix, Ph.D.

Bendix Environmental Research, Inc.
1390 Market Street, Suite 902
San Francisco, California 94102

Richard K. Hopper, Transportation Consultant, C-18928 978 DeSoto Lane Foster City, California 94404

Charles M. Salter, Consultant in Acoustics, M-16460 Charles M. Salter Associates, Inc. 350 Pacific Avenue San Francisco, California 94111

Author of Final Draft EIR

Bendix Environmental Research, Inc. 1390 Market Street, Suite 902 San Francisco, CA 94102

Project Sponsor

2222 Limited 300 Montgomery Street San Francisco, California 94104

Project Architect

Architects Associated 300 Montgomery Street San Francisco, California 94104

Organizations and Persons Consulted

San Francisco Department of City Planning
Theresa Cameron-Kerr
Bob Feldman
Roger Herrera
Jeremy Kotas
Eva Levine
Robert Passmore

Transportation Planning Section
Ed Green
Chi-Hsin Shao
Landmarks Advisory Preservation Board
Jonathan Malone

San Francisco Department of Public Works
Traffic Engineering
Scott Shoaf, C-17656, TR-935
Nelson Wong, C-28379
Bureau of Engineering
Cormac Brady, Senior Mechanical Engineer, M-11842
Central Permit Bureau

San Francisco Muni Barbara Brown, Planner Susan Chelone, Planner

San Francisco Water Department
City Distribution Division
Jack Kenck, City Distribution Manager

San Francisco Wastewater Program
Mervin Francies, Engineering Associate II

San Francisco Department of Health
Robert MacDonough, Environmental Health Inspector (deceased)

San Francisco Public Library History & Archives Room

San Francisco Police Department Potrero Police Station Officer Alfred Baldocchi

San Francisco Fire Department
Division of Planning & Research
Chief Robert Rose
Ken Long, Fire Protection Engineer

San Francisco Unified School District E. R. Schulman

San Francisco Supervisor Doris Ward

Mayor's Office of Community Development Barbara Smith

Bay Area Air Quality Management District Teresa Lee, Public Information Milton Feldstein, Air Pollution Control Officer

CalTrans

John Gersler

California Department of Health Services
Epidemiology Section
Dr. Ephraim Kahn, Chief
Hazardous Materials Management Section
Dr. David L. Storm, Regional Administrator
Ed Refsell, Waste Management Specialist

U.S. Department of Housing & Urban Development
San Francisco Area Office
Robert Jolda, Economic and Market Analysis Division
Steve Grossman, Housing Representative

Dutch Boy, Inc.
Coatings Group
Samuel R. Wilson, Directo

Samuel R. Wilson, Director of Distribution Richard J. Marklin (retired)

PG&E

Robert Tucker, Dealer Representative Tim Duane, Intern

Solar Center, San Francisco

Jones & Kiefer Construction Co., San Francisco Brian Kiefer

LFE Environmental Analysis Laboratories, Richmond

Power Towers, Inc., Pleasant Hill Neil Holbrook

Peterson Associates Realtor Edward E. Pendergrass

Potrero Hill Neighborhood House Enola D. Maxwell, Executive Director

Potrero Hill Community Development Corporation Jim Queen, President Brian Chekowski, Counsel

- Potrero Hill Boosters & Merchants Association Michael Krivit
- Potrero Hill League of Active Neighbors Maria Vermiglio, President
- Potrero Hill Homeowners and Renters Association Joan Tricamo

IX. DISTRIBUTION LIST

Agencies

Charles Q. Forester
Director of Planning
Association of Bay Area
Governments
Hotel Claremont
Berkeley, CA 94705

California Department of Health
Hazardous Materials Management
Section
2151 Berkeley Way
Berkeley, CA 94704
Attn: Ed Refsell (1 copy).
Harry Saraydarian (2 copies)

Lawrence Goldberger
Director Housing Division
Dept. of Housing & Urban
Development
San Francisco Area Office
One Embarcadero Center, #1600
San Francisco, CA 94111

Theresa G. Rumjahn
Regional Water Quality Control
Board
San Francisco Bay Region
1111 Jackson Street, Rm. .6040
Oakland, CA 94607

State Office of Intergovernmental Management (5 copies) State Clearinghouse 1400 Tenth Street Sacramento, CA 95814

City and County of San Francisco

Supervisor Doris Ward 235 City Hall San Francisco, CA 94102

San Francisco Planning Commission
100 Larkin Street
San Francisco, CA 94102
Toby Rosenblatt
Jerome H. Klein
C. Mackey Salazar
Susan Bierman
Yoshio Nakashima
Roger Boas
Norman Karasick, Alternate
Richard Sklar
Eugene Kelleher, Alternate
Lee Woods, Secretary

Mayor's Office of Community
Development
939 Ellis Street
San Francisco, CA 94109
Attn: Barbara Smith

San Francisco Department of Public Works City Hall, Room 359 San Francisco, CA 94102 Attn: Jeffrey Lee, Director

Bureau of Building Inspection 450 McAllister Street San Francisco, CA 94102 Attn: Robert Levy, Superintendent

Bureau of Sanitary Engineering 770 Golden Gate Avenue San Francisco, CA 94102 Attn: Thomas Landers, Managing Engineer, Wastewater

City and County of San Francisco (Cont'd)

Water Department
Distribution Division
425 Mason Street
San Francisco, CA 94102
Attn: John Kenck, Manager

San Francisco Fire Department 260 Golden Gate Avenue San Francisco, CA 94102 Attn: Joseph Sullivan, Chief, Support Services

San Francisco Police Department 850 Bryant Street San Francisco, CA 94103 Attn: Cornelius P. Murphy, Chief

San Francisco Department of
Health
Bureau of Environmental Health
101 Grove Street
San Francisco, CA 94102
Attn: Paul Schwabacher,
Director (2 copies)

Committee for Utility Liaison on Construction and Other Projects c/o GES-Utility Liaison 363 City Hall San Francisco, CA 94102 Attn: Herman Beneke

Groups and Individuals

Mike Krivit, President Potrero Hill Boosters & Merchants Association 1069 Carolina Street San Francisco, CA 94107

Potrero Hill Community
Development Corporation
1060 Tennessee Street
San Francisco, CA 94107
Attn: Jim Queen

Groups and Individuals (Cont'd)

Joan Tricamo
Potrero Hill Homeowners &
Renters Association
519 Rhode Island Street
San Francisco, CA 94107

Maria Vermiglio
Potrero Hill League of Active
Neighbors
951 Rhode Island Street
San Francisco, CA 94107

James Firth
Potrero Hill League of Active
Neighbors
577 Arkansas Street
San Francisco, CA 94107

Carol Larsen, President Potrero Hill Neighborhood House 953 De Haro Street San Francisco, CA 94107

Babette Drefke Potrero Beautification Group 701 Kansas Street San Francisco, CA 94107

Alda Angsp 2132 24th Street San Francisco, CA

Dr. Daniel Berman 893 Rhode Island Street San Francisco, CA 94107

Bob Bradford 1841 19th Street San Francisco, CA 94107

Lee Brown
Local 2 - Culinary Workers Union
209 Golden Gate Avenue
San Francisco, CA 94102

Groups and Individuals (Cont'd)

Don Bules DCP 1212 Market Street San Francisco, CA 94102

David Coldoff 61 Monte Vista Atherton, CA 94025

Ron Dicks 1060 Tennessee Street San Francisco, CA 94107

Paulette Faison 1111 Buchanan Street San Francisco, CA 94115

Russ Faure-Brac EIP 319 11th Street San Francisco, CA 94103

James Faye 1369-A Page Street San Francisco, CA 94117

Jim Firth
577 Arkansas Street
San Francisco, CA 94107

Jeff Gabe CBE 88 First Street, Suite 600 San Francisco, CA 94105

Thomas A. Gust 969 Wisconsin Street San Francisco, CA

Robert Helman 786 Guerrero Street San Francisco, CA 94103

Ian Keay 2132 24th Street San Francisco, CA Jean Loura 2012 23rd Street San Francisco, CA 94107

Bill Oetinger 1185 Rhode Island Street San Francisco, CA 94107

Jerry Owyang WESTEC Services, Inc. 3211 Fifth Avenue San Diego, CA 92103

Barry Pearl District 11 Residents Assoc. 1279 23rd Avenue San Francisco, CA 94122

Jon Pon 854 Union Street San Francisco, CA 94133

Jim Queen
Executive Director
Potrero Hill Community Development Corporation
1060 Tennessee Street
San Francisco, CA 94107

Christopher Sabre 2012 23rd Street San Francisco, CA 94107

Patricia Sands 2212 25th Street San Francisco, CA 94107

Steve Shapiro 1369-A Page Street San Francisco, CA 94110

Kent Stoddard
Project Manager
OAT
1322 O Street
Sacramento, CA 95814

Groups and Individuals (Cont'd)

Paul Zigman ESA 1390 Market Street, Suite 215 San Francisco, CA 94102

Phil De Andradi Potrero Hill 20th St. Merchants' Assoc. 300 Connecticut Street San Francisco, CA 94107

Potrero Hill Advisory Council 1447 20th Street San Francisco, CA 94107

Pat Occoou
Potrero Hill Citizens
Improvement Association
1021 Connecticut Street
San Francisco, CA 94107

Potrero Hill Residents & Homeowners Council 690 De Haro Street San Francisco, CA 94107

Media --

KQED Television Studio 500 Eighth Street San Francisco, CA 94103

Patrick Douglas, City Editor San Francisco Bay Guardian 2700 19th Street San Francisco, CA 94110

Dale Champion San Francisco Chronicle 925 Mission Street San Francisco, CA 94103

Gerald Adams
San Francisco Examiner
110 Fifth Street
San Francisco, CA 94103

Media (Cont'd)

Mike Mewhinney San Francisco Progress 851 Howard Street San Francisco, CA 94103

The Sun Reporter 1366 Turk Street San Francisco, CA 94115

Potrero View 953 DeHaro Street San Francisco, CA 94107

Libraries

San Francisco Public Library
Potrero Hill
1616 - 20th Street
San Francisco, CA 94107

Documents Department City Library - Civic Center San Francisco, CA 94102 Attn: Faith Van Liere

Environmental Protection Agency Library 215 Fremont Street San Francisco, CA 94105 Attn: Jean Circiello

Government Publications Dept. San Francisco State University 1630 Holloway Avenue San Francisco, CA 94132

Hastings College of the Law Library 198 McAllister Street San Francisco, CA 94102

Stanford University Library Government Documents Section Stanford, CA 94305

University of San Francisco Gleeson Library Golden Gate and Parker Avenues San Francisco, CA 94115

Additional Individual Requests

Dr. Arthur Furst 3736 La Calle Ct. Palo Alto, CA 94306

SAM FRANCISCO

CITY PLANNING COMMISSION

RESOLUTION NO. 9029

VHEREAS, A draft environmental impact report, dated March 27, 1981, has been prepared by the Department of City Planning in connection with EE80.110: 2222-23rd Street. 132-unit condominium development with 8,500 sq. ft. of commercial space and 161 parking spaces, requiring zoning reclassification from RH-2 to RH-2 on the property described as follows:

Lot 1 in Assessor's Block 4216; the entire block bounded by Kansas, 23rd, Rhode Island and 24th Streets; and

MHEREAS, The Department duly filed a notice of completion of the draft report with the Secretary of the California Resources Agency, gave other notice and requested comments as required by law, made the report available to the general public and satisfied other procedural requirements; and

HIEREAS, The City Planning Commission held a duly advertised public hearing on said draft environmental impact report on April 30, 1981, at which opportunity was given for public participation and comments; and

MHEREAS, A final environmental impact report, dated July 2, 1981, has been prepared by the Department, based upon the draft environmental impact report, any consultations and comments received during the review process, any additional information that became available, and a response to any comments that raised significant points concerning effects on the environment, all as required by law; and

MIEREAS, On July 2, 1981, the commission reviewed the final environmental impact report, and found that the contents of said report and the procedures through which it was prepared, publicized and reviewed comply with the provisions of the california Environmental Quality Act, the Guidelines of the Secretary for Resources and San Francisco requirements;

THEREFORE BE IT RESCLVED, That the City Planning Commission does hereby find that the Final Environmental Impact Report, dated July 2, 1981, concerning EE30.110: 2222 - 23rd Street is adequate, accurate and objective, and does hereby CERTIFY THE COMPLETION of said Report in compliance with the California Environmental Quality Act and the State Guidelines;

AND BE IT FURTHER RESOLVED, That the Commission in certifying the completion of said Report does hereby find that the project as proposed will not have a significant effect on the environment.

I hereby certify that the foregoing Resolution was ADOPTED by the City Planning Commission at its regular meeting of July 2, 1931.

Lee Moods, Jr. Secretary

AYES: Commissioners Bierman, Kelleher, Klein, Hakashima, Mortman

MOES: None

ADSENT: Commissioners Rosenblatt, Salazar

PASSED: July 2, 1981

APPENDICES

- A. Proposed Project Costs
- B. Traffic
- C. Chemical Data
 - 1. Chemicals Found on Project Site
 - 2. Metal Compounds Used in Paint Pigments
 - 3. Soil Concentrations of Elements Found On Site
 - 4. Location of Core Samples
 - 5. Site Distribution of Arsenic
 - 6. Site Distribution of Cadmium
 - 7. Site Distribution of Chromium
 - 8. Site Distribution of Copper
 - 9. Site Distribution of Lead
 - 10. Site Distribution of Mercury
 - 11. Site Distribution of Zinc

There is no page 158.

APPENDIX A

Projected Project Costs

APPENDIX A

Proposed Project Costs (March 1981 Dollars)

Basic Construction	\$11,239,000*
Land Cost	1,440,000
Land Carrying Cost	653,000
Demolition	346,000*
Site Preparation	202,000*
Architecture	374,000
Engineering	161,000
Legal	40,000
Soils	23,000
Marketing	
Sales/Models	230,000
Financing	
Construction Loan 2 pts.	323,000
End Loans 1 pt.	242,000
Interest During Construction	1,498,000
Homeowners Due (by Developer)	127,000
Total Development Cost	\$11,898,000

^{*} Construction costs

APPENDIX B

Traffic

LEVELS OF SERVICE DEFINITIONS FOR SIGNALIZED INTERSECTIONS*

Level of Service A

Level of Service A describes a condition where the approach to an intersection appears quite open and turning movements are made easily. Little or no delay is experienced. No vehicles wait longer than one red traffic signal indication. The traffic operation can generally be described as excellent.

Level of Service B

Level of Service B describes a condition where the approach to an intersection is occasionally fully utilized and some delays may be encountered. Many drivers begin to feel somewhat restricted within groups of vehicles. The traffic operation can generally be described as very good.

Level of Service C

Level of Service C describes a condition where the approach to an intersection is often fully utilized and back-ups may occur behind turning vehicles. Most drivers feel somewhat restricted, but not objectionably so. The driver occasionally may have to wait more than one red traffic signal indication. The traffic operation can generally be described as good.

Level of Service D

Level of Service D describes a condition of increasing restriction causing substantial delays and queues of vehicles on approaches to the intersection during short times within the peak period. However, there are enough signal cycles with lower demand such that queues are periodically cleared, thus preventing excessive back-ups. The traffic operation can generally be described as fair.

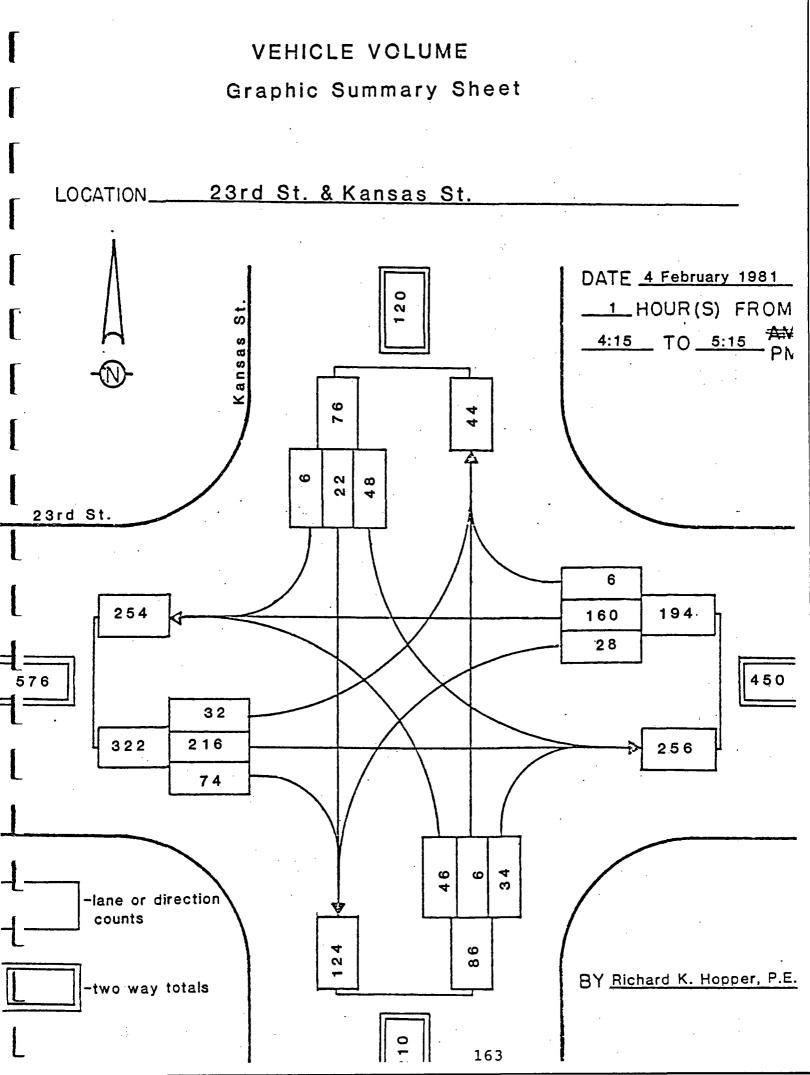
Level of Service E

Capacity occurs of Level of Service E. It represents the most vehicles that any particular intersection can accommodate. At capacity there may be long queues of vehicles waiting up-stream of the intersection and vehicles may be delayed up to several signal cycles. The traffic operation can generally be described as poor.

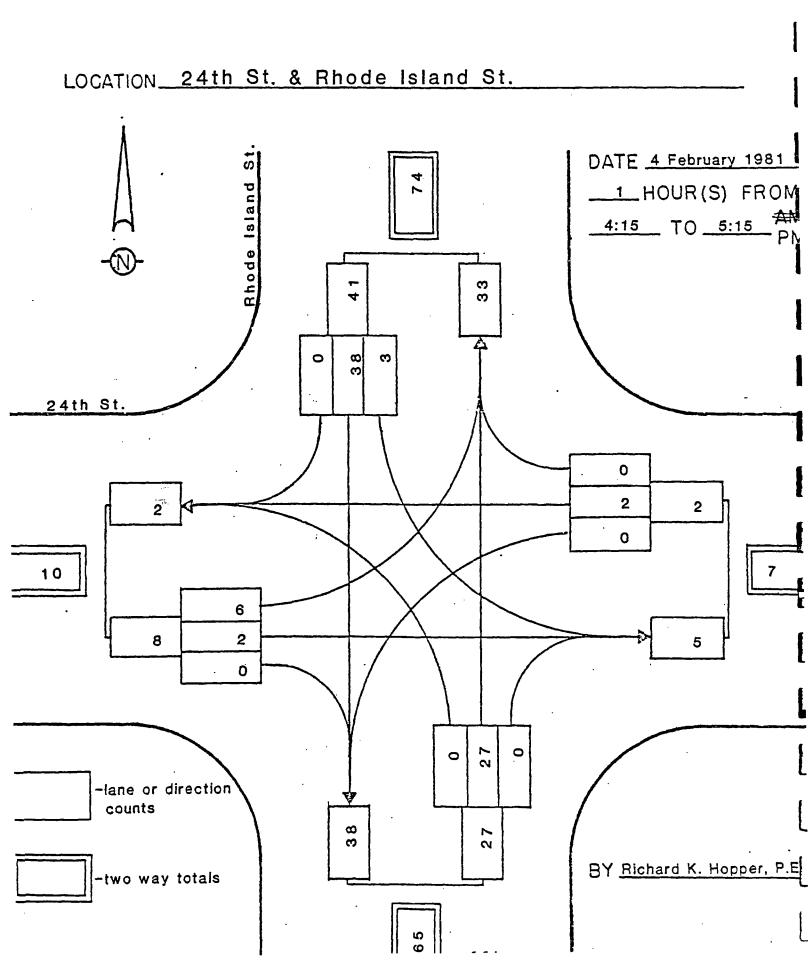
Level of Service F

Level of Service F represents a jammed condition. Back-ups from locations downstream or on the cross street may restirct or prevent movement of vehicles out of the approach under consideration. Hence, volumes of vehicles passing through the intersection vary from signal cycle to signal cycle. Because of the jammed condition, this volume would be less than capacity.

^{*} City and County of San Francisco, Department of Public Works, Traffic Engineering Division



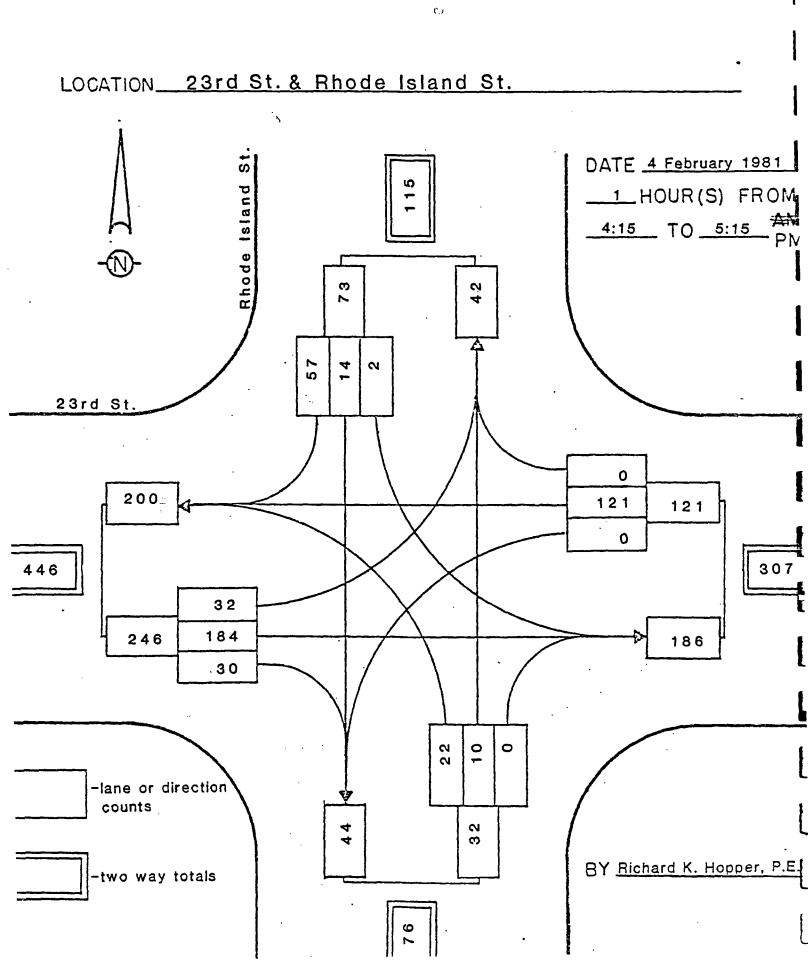
VEHICLE VOLUME Graphic Summary Sheet



VEHICLE VOLUME Graphic Summary Sheet

Graphic Summary Sheet LOCATION 24th St. & Kansas St. DATE 4 February 1981 1 HOUR(S) FROM 4:15 TO 5:15 AM S 148 Kansas 24th St. 0 4 -lane or direction counts BY Richard K. Hopper, P.E. -two way totals

VEHICLE VOLUME Graphic Summary Sheet



APPENDIX C

- 1. Chemicals Found On Site
- 2. Metal Compounds Used in Paint Pigments
- 3. Soil Concentrations of Elements Found On Site
- 4. Location of Core Samples
- 5. Site Distribution of Arsenic
- 6. Site Distribution of Cadmium
- 7. Site Distribution of Chromium
- 8. Site Distribution of Copper
- 9. Site Distribution of Lead
- 10. Site Distribution of Mercury
- 11. Site Distribution of Zinc

Item	Bldg.	Level	Description	Manufacturer	Label	Opened?	Comments
1	1	Grnd.	1-5 gal drum Sol 150, "for pool chlorination, "corrosive"		orig.	empty	
2			1-5 gal metal drum "Dromus," coolant, cutting oil		orig.	yes	
3		2	home size bathroom cleaning products		orig.	most	•
		3.	2-5 gal plastic cans "Hard Water Rinse Fluid"	Natl. Insti- tutional Food Distri- butors Asso- ciates Inc., Atlanta, GA	orig.	yes	East side of fire escape.
5			l-5 gal plastic drum dark liquid, labelled "poison cleaner"		hand	yes	
6			1-3/4 gal "Lime-A-Way, contains: phosphoric acid"		orig.	yes _.	Found moved and spilled 18 June. Corrosive. Contact with common metals produces hydrogen which may form flammable mixtures with air. Moderately irritating to eyes, skin, mucous membranes. Safe human exposure limit 0.1 parts per million (ppm) in air. Vapor forms explosive mixtures with
					٠		air. Dangerous in contact with oxidizing materials. Flash Point 109°F.
7			2-5 gal containers soft brown solid	none	yes		Looks like cooking fat or wax.

Item	Bldg.	Level	Description	Manufacturer	Label	Opened?	Comments
8	1	3	1-50 gal cardboard drum Formula 251, boi- ler cleaner, contains sodium polyacrylate	Garrat-Calla- han, Milbrae, CA	-	maybe	DOT required label: non-corrosive, non-toxic cleaning compound. pH approx. 8 (slightly basic).
9		,	l home-size can Black Flag pesticide	·	orig.	yes	Some Black Flag products contain DDVP and isopropoxyphenyl methyl carbamate. DDVP produces human blood and skin effects at 1 part per trillion in air and is teratogenic. The carbamate has a safe human exposure limit of 0.5 ppt in air. Can gone as of 20 June 1980.
10		4 ,	1-12 gal can paint remover, contains methylene chloride (dichloromethane)	Montgomery Ward	orig.	yes	Narcotic in high concentrations. Suspected human carcinogen. Human safe exposure limit 1000 ppm.
11	. •	5	bathroom cleaning products		orig.	yes	·
12		6	1-5 gal drum paint		none	yes	Near elevator; not in orig. containe
13	2	grnd.	l-l gal can automo- tive lacquer		orig.	yes	Near Kansas St. entrance.
14			1-wooden box cleaning products		orig.	most	
15			1-50 gal, blue metal drum		hand	maybe	Labelled 30H with 3 and possibly 0 crossed out and 4 written in.
16	·		50 to 100 lqt to 1 gal spray & non-spray paint cans		orig.	about	

CHEMICALS FOUND ON PROJECT SITE, Page 4

Item	Bldg	Level	Description	Manufacturer	Label	Opened?	Comments
27	2	4	household size paint & cleaning supplies		orig +	mostly	
28	3	grnd (not base- ment here)	2-1 gal jugs Lucdol, 60% methyl ethyl ketone peroxide (2-butanone peroxide) dimethyl phthalate	Kodak	orig	?	Affects human intestinal tract. Flash Point 21°F. Fire fighting should be done from an explosion resistant location. Carcinogenic in mouse. Teratogen in rat. Irritating to mucous membranes. Nervous system depressant. Human permissible exposure limit 5 ppm. Incompatible with nitrates.
29			8-1 gal "rapid fixer"		orig	some	
30			<pre>l-l gal "Pakosol" print conditioner</pre>	Pako Corp., Minneapolis, Minn.	orig	?	
31			2-1 gal containers varnish remover, methylene chloride	Montgomery Ward.	orig	?	See Item 10.
32		3	1-1 gal linseed oil		orig	yes	•
33 :		ų ·	l-1 gal "all purpose cleaner"		orig	yes	
34	3,4,5	loadir dock	ng 10-50 gal metal drums full of liquid		none	yes ,	Non-flammable, acidic, similar contents.
35	4	grnd	1-blue plastic, 50 gal drum		none	no	Near entrance to bldg. 3.

Item	Bldg.	Level	Description	Manufacturer	Label	Opened?	Comments
36	5	N/A	2-55 gal drums "Swift Adhesive"	S	orig	yes	•
37			1-5 gal plastic drum "Flexichrome green"		orig	yes	
38		•	7-55 gal drums "urea resin"	Reichhold Chem	hand	maybe	
39			1-55 gal drum "sand"		hand	maybe	
40		·	6-55 gal drums iso- butanol		hand	maybe	Flash Point 82°F. Firefighting should be done from an explosion-resistant location. Carcinogenic in rat. Mildly irritating to skin and mucous membranes. Narcotic in high doses.
141			2-55 gal drums "White glue"		hand	yes	
42			9-5 gal cans cement sealer, "Steel coat"		orig	шауbе	
43			8-5 gal cans Tremco- 300, "sealer for concrete floors,"		orig + hand	maybe	
			contains: urethane,				Carcinogenic in rat, mouse, guinea pig and hamster. Teratogenic in rat, mouse and hamster.
			polyester resin, epoxy resin, alkyd resin				
44			approx 10-1 gal cans latex stain		orig	no	

Item	Bldg.	Level	Description	Manufacturer	Label	Opened?	Comments
45	5	N/A	approx 50-1 qt cans paint		orig	no	
46			1-55 gal drum "pine glaze," contains petroleum distillates and/or industrial solvents	Lily Indus- trial Coa- tings, 901 W Union St, Montebello, CA	orig + hand	yes	
47			2-3 gal containers "Plastiglaze type c, aluminum grade"		orig	yes	
48			2-55 gal drums "Polalyte Resin solution, contains: styrene, and/or 'acrylite	Reichold, LA	orig	maybe	Flash Point 90°F. Forms explosive mixtures with air. Vapor may travel considerable distance to source of ignition then flash back. Firefighting should be done from an explosion resistant position. Eye and respiratory irritant. Keep away from oxidizing agents.
			monomers"				
49			1-55 gal drum "car- pet adhesive"		hand	yes	Found spilled on 20 June; is adhesive.
50			11-55 gal cardboard drums, 1 labelled Dylyte expandable polyester; open drums contain powder		orig	уез	

Item	Bldg.		Description		Label	Opened?	Comments
51	5	N/A	1-55 gal drum "lube oil"		stenci	.l yes	Not full.
52			1-55 gal drum "Aluminum sealer"	Parwaf Mfg. LA	orig + hand	yes	
53	•	. •	1-5 gal drum "darkroom"		hand	yes	
54			8-55 gal drums stucco patch		stenci	maybe	
55			1-55 gal cardboard drum spackling powder	·	orig?	yes	South side of bldg. May contain asbestos. Found spilled 20 June.
56			8-1 gal cans Dursban 2E insecticide (lorsban, Chlorpyrifos)	Dow	orig	no ·	Soil insecticide for control of wire worms, cutworms, corn root-worms. Occupational exposure limit 0.2 ppm in air. Cans nearly rusted through.
57			15-55 gal, old, metal drums	Orig label Harvest Base Co.		yes	No indication of nature of contents. Some with red spray paint crosses.
58	6	grnd	2-55 gal plastic drums clay slip		hand	maybe	One found spilled 20 June.
59			approx 20 bags ferti- lizer, ammonium nitrate		orig	some	Explosive. Organic matter can sensitize to more readily explodable state. Melts at 337°F. Emits toxic gases on decomposition. Responsible for 1947 Texas City disaster
60	8	grnd	2-55 gal drums "datoma- ceous earth"		hand	yes.	Made up of fused silica, spherical submicroscopic particles under 0.lu.

Item	Bldg.	Level	Description	Manufacturer	Label	Opened?	Comments
61	10&11	grnd	l-1 gal bottle hydro- chloric acid		orig	yes	Found moved on 20 June 1980. Fatal at 1500 ppm in air. Hig reactivity. Contact with comm metals produces hydrogen which may form explosive mixtures wi air. Keep away from oxidizabl materials.
62			1-1 gal container soda ash (sodium carbonate)		orig	yes	Eye and skin irritant.

C.2: Toxicity of typical inorganic paint pigments.

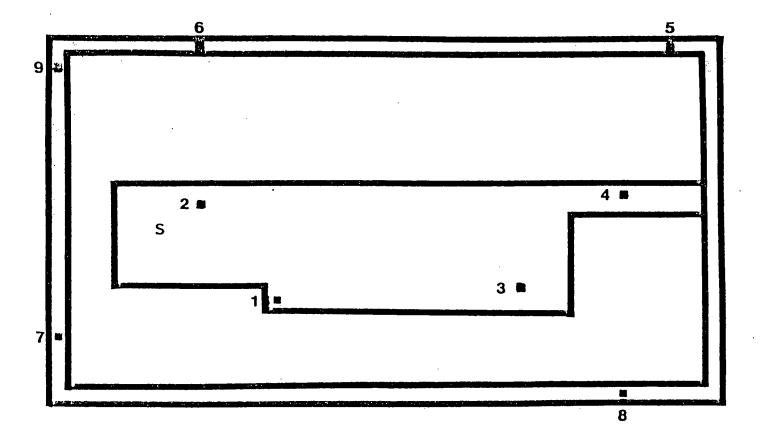
Common Name	Chemical Name	Chemical Formula	Color	Human Target Organs	Occupational Permissible Exposure Limits in milligrams/cubic meter air	Comments
Litharge	lead oxide	Рьо	yellow	blood, nervous system, kidney	0.002	·
Orpiment	arsenic trisulfide	As ₂ S ₃	yellow	intestinal tract skin, nervous system	, 0.002	Now little used; car-cinogen ²
Paris Green	copper acetate meta-arsenate or copper, bis (acetato) hexa- meta-arsenito- tetra-	Cu(C ₂ H ₃ O ₂) ₂ .	green	intestinal tract nervous system	, 0.002	
Realgar	arsenic disul- fide	As ₂ S ₂	brownish- red	intestinal tract skin, nervous system		Now little used; car-
Cadmium Yellow	cadmium sul- fide	CdS	yellow	kidney, lungs	0.04	carcinogen .
Cadmium Red	cadmium sul- fide/cadmium selenide mix- tures	CdS CdSe	light red to maroon	kidney, lungs, liver, prostate, blood	0.04	carcinogen
Chrome Yellow	lead chromate	PbCrO _{ll}	yellow	blood, nervous system, kidney	0.05	carcinogen
Red Lead	lead oxide	Pb3014	red	kidney, blood, nervous system	0.05	used to pro- tect steel

C.3: Comparison of normal soil concentrations of some elements and minimum and maximum concentrations found on site.

Element	Normal Soil Range		dinimu	m Site depth		aximum ore #	
Cadmium	0.1 - 71	<0.6	4	3 feet	17	s	0 feet
Chromium	trace - 250 ⁵	34	3	4.3	1000	8	9.4
Copper	2 - 150 ¹	7.9	4	3	160	S	0
ead	1 - 200 ^{3,4}	5,6	ı.	15,3	4800	S.	0
Mercury	0.12	0.12	8	9.4	8.6	S	0
line	trace - 250 ⁵	19	8	9.4	4200	S	0
rsenic	$1 - 70^6$	3.5	3	4.3	60	4	15

- 1 "The Nature and Properties of Soils," 8th Ed. Nyle, C. Brady, MacMillan 1974.
- 2 Average concentration. "Mercury in Your Environment," Bendix, Selina, Oceanic Society, 1971, p.1.
- 3 Mindahl, Robert L. & Skogerboe, Rodney K. "Behavior of Lead in Soil," Environmental Science and Technology, 11:1202-1207(1977).
- 4 Soil used to replace lead-contaminated soil in an Oakland park was found to have 15-19 ppm lead* (*Wesolowski, Jerome, J., "The Identification and Elimination of a Potential Lead Hazard in an Urban Park," Archives of Environmental Health, 34:413-418(1979)).
- 5 Baetjer, Anna M., "Chromium," Proc. Symp. Toxicity of Metals, Industrial Health Fdn, 1975.
- 6 Bear, Firman E., "Chemistry of Soil," p. 366, 2nd Ed., 1964.
- S = surface sample.

C.4: Location of Core Samples.

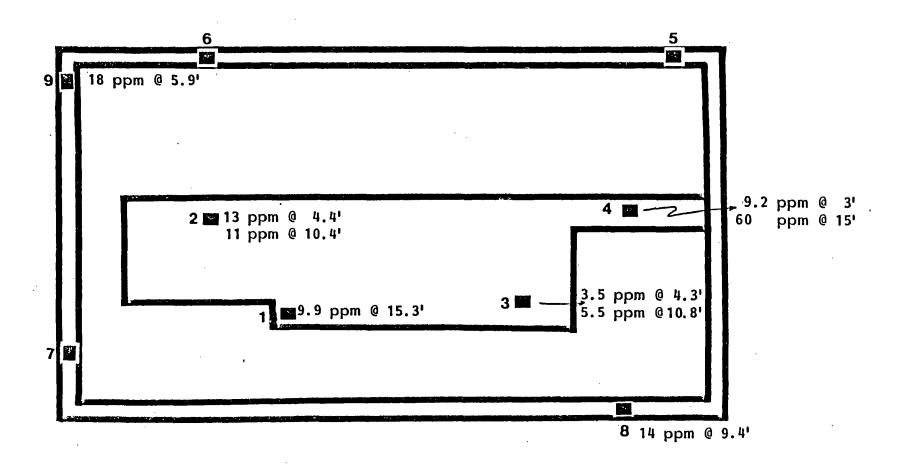


S: Location of Surface Sample



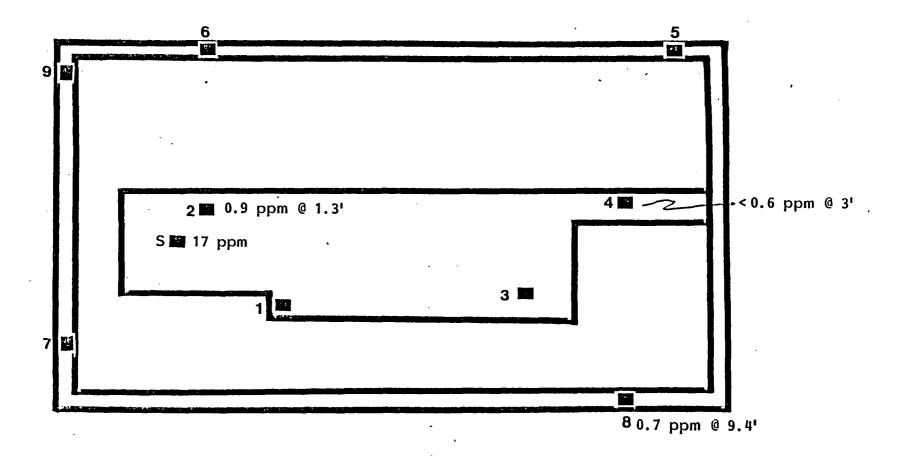
C.5: Distribution of ARSENIC on the site.

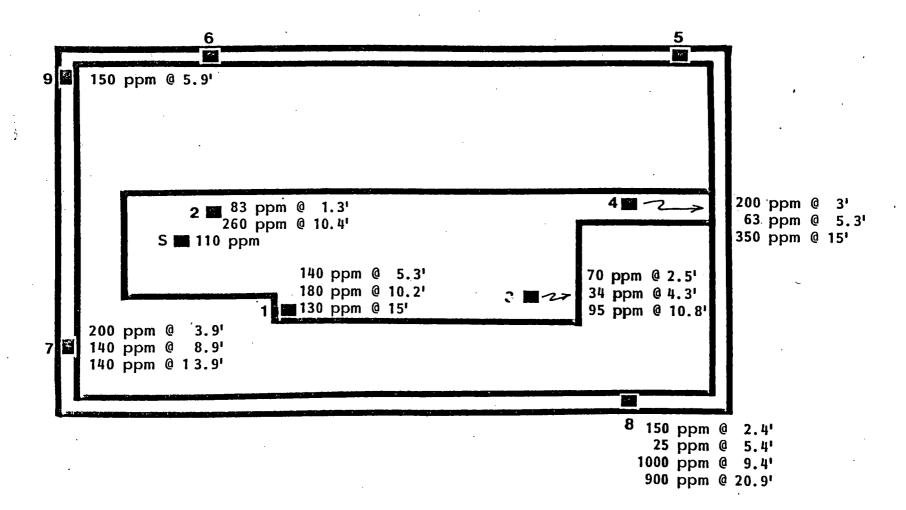




C.6: Distribution of CADMIUM on the site.

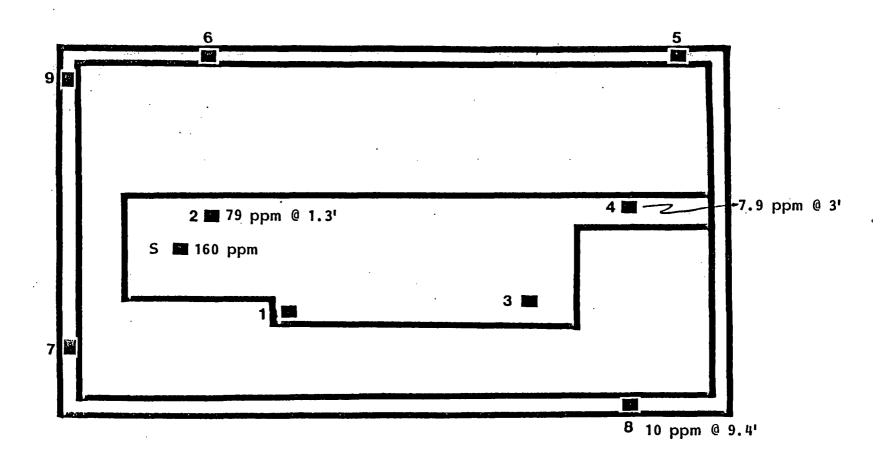




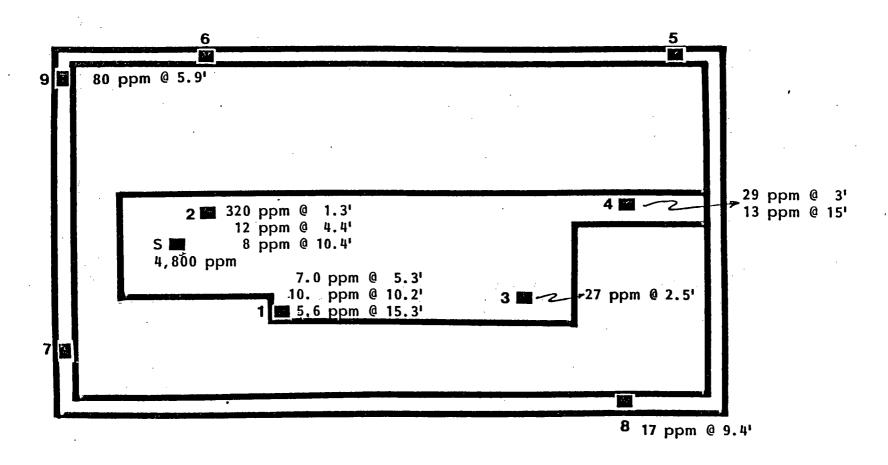


C.8: Distribution of COPPER on the site.

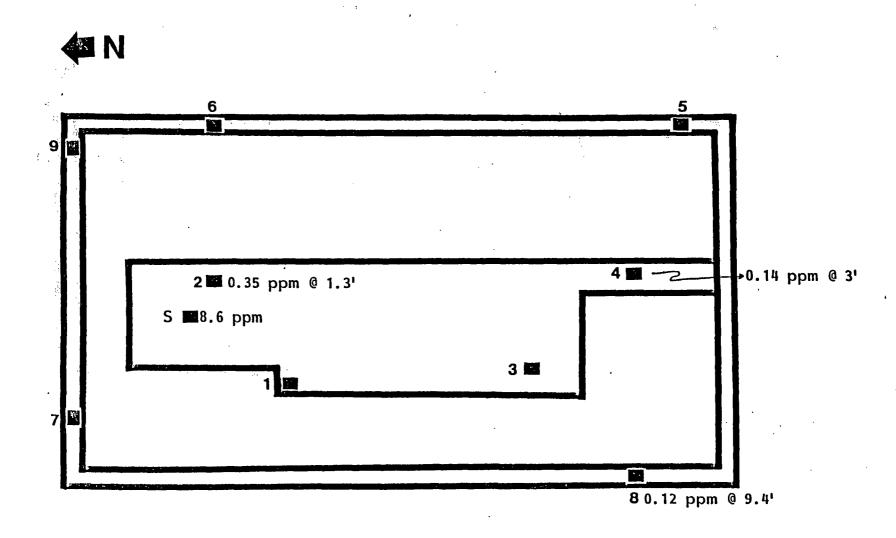






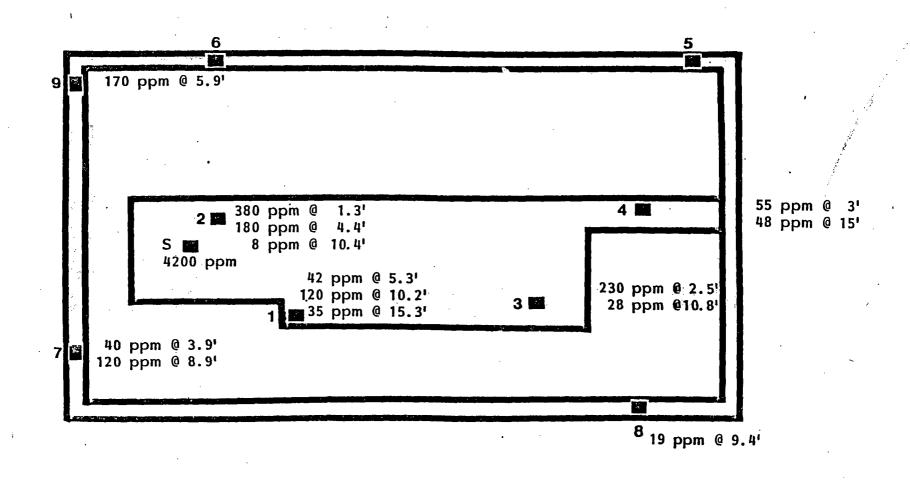


C.10: Distribution of MERCURY on the site



C.11: Distribution of ZINC on the site.





AFFIDAVIT OF FRED OBERLIN REGARDING OPERATIONS AT NL INDUSTRIES, INC.'S FORMER FACILITY AT 2240 24TH STREET, SAN FRANCISCO, CALIFORNIA

STATE OF CALIFORNIA)
) ss
COUNTY OF ORANGE)

Fred Oberlin, being first duly sworn, upon his oath upon personal knowledge and under the penalty of perjury, states as follows:

- 1. I have personal knowledge of the matters set forth herein.
- 2. My date of birth is May 12, 1919. I am 92 years old.
- I am not aware of any medical condition that would affect my ability to understand questions or to recall past events.
- 4. I worked for National Lead Company ("NL") from February 19, 1951 to April 1, 1977.
- I worked as the Technical Supervisor of three laboratories on the West Coast, including the NL facility located at 2240 24th Street in San Francisco, California ("the 24th Street Plant") from 1962 until 1970, when NL closed the facility.
- 6. The 24th Street Plant produced paints and varnishes.
- 7. In my job as Technical Supervisor, I was responsible for overseeing the laboratory at the 24th Street Plant and had personal knowledge of the ingredients used in the varnishes manufactured at the plant.
- 8. Varnishes were largely produced for use by NL in the paint production process and a small quantity was sold to outside companies.
- Varnishes made at the 24th Street Plant were composed of gum or phenolic resins,
 vegetable oil (like linseed), and paint thinner.
- 10. Lead dryers may have been added to certain varnishes in small quantities.
- 11. When lead dryers were added to varnishes manufactured at the 24th Street Plant, approximately 4 to 5 pounds of dryer were added to every 100 gallons of varnish. Dryers consisted of 24% lead for every 4 to 5 pounds of dryer.

- 12. No PCBs or "aroclors" were used at the 24th Street Plant in the production of varnishes or paints during the time I was employed there (1962-1970).
- 13. I am familiar with the term "PCB" and "aroclor" because "aroclors" were used in my previous employment.
- 14. Used 50-gallon varnish drums were picked up from the 24th Street Plant for cleaning by a drum re-conditioning company, but I do not recall the name of the company that picked up the drums.
- 15. The drums were essentially empty when picked up.
- 16. To the best of my knowledge, the 24th Street Plant operated Monday through Friday. The plant was closed on holidays.
- 17. NL's lacquer warehouse was located on Marin Street in San Francisco, which was approximately 1 to 1 ½ miles from the 24th Street Plant.
- 18. I have knowledge of NL's lacquer production processes at the Marin Street facility because I was the Technical Supervisor of the laboratory.
- 19. Lacquer manufacturing was a different process than varnish or paint manufacturing, and NL lacquer was made of Nitrocellulose, Alkyds (composed of phthalic anhydride, glycerin, and oils like lineed, coconut, or castor oils), hard resins and thinner.
- 20. Neither lead (litharge) dryers, PCBs or "aroclors" were used in the production of lacquer on Marin Street during the time I was employed there (1962-1970).

SUBSCRIBED AND SWORN TO before me this	day of October, 2011, by Fred Oberlin.
	Notary Public
My Commission Expires:	

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California	1
County of ORANGE	
On Oct. 19, 2011 hefore me	JOHN HANK
Date Scion is	Here Insert Name and Title of the Officer
personally appeared	TORN HAVE Here Insert Name and Title of the Officer OBENLIN Name(s) of Signer(s)
JOHN HANK Commission # 1943003 Notary Public - California Los Angeles County My Comm. Expires Jul 2, 2015	who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/a e subscribed to the within instrument and acknowledged to me that he/sbe/they executed the same in his/her/their authorized capacity(ies), and that by his/ber/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct. WITNESS my hand and official seal
	Signature Jeh Haf
Płace Notary Seal Above	Signature of Notary Public OPTIONAL
Though the information below is not required	by law, it may prove valuable to persons relying on the document
and could prevent fraudulent remove Description of Attached Document	val and reattachment of this form to another document.
Title or Type of Document:	
	Number of Pages:
Signer(s) Other Than Named Above:	Number of Fages.
Capacity(ies) Claimed by Signer(s)	
Attorney in Fact OF S	Signer's Name: Individual Corporate Officer — Title(s): Partner — Limited General SIGNER humb here Trustee Guardian or Concervator Other:
Signer Is Representing:	Signer Is Representing:

© 2007 National Notary Association • 9350 De Soto Ave., P.O. Box 2402 • Chatsworth, CA 91313-2402 • www.NationalNotary.org | Item #5907 | Reorder: Call Toll-Free 1-800-876-6827